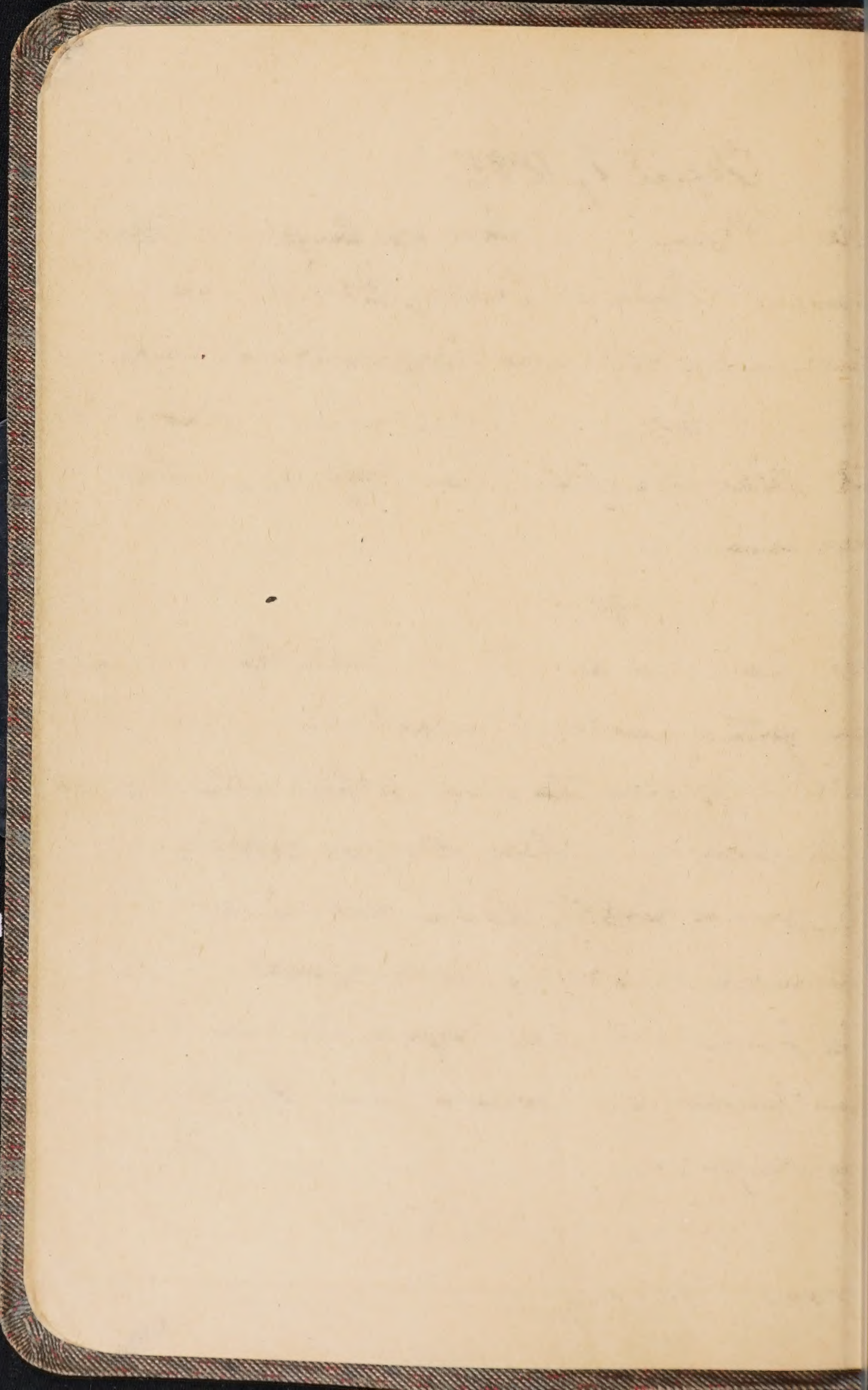


No. 2

Notes
Book

Joe Grinnell.



April 7, 1895.

Clear. Warm. Saw on the place this morning Audubon's Warbler, West. Robin, Lawrence's Goldfinch, Arizona Hooded Oriole, West. Lark Sparrow, West. Chipping Sparrow, etc. A Goldfinch's (Ark.) ^{nest} has 3 eggs in it this morning.

April 8.

Clear. Warm. Went down to oak Knoll this evening. Saw quite a number of yellow Warblers + Audubon's Warblers; also the first Ash-throated Flycatcher of the season. Also Lewis's Woodpecker, Ruby-crowned Kinglet, Golden-crowned Sparrow, Intermediate Sparrow, Thumber's Junco. The Goldfinch's nest has 4 eggs in it, and the bird has probably been sitting since the first egg was laid.

April 9, 10, 11, & 12.

Clear. Warm.

April 13, 1895.

Went out to Santa Anita oaks; saw following birds, with approximate numbers of each seen:-

10 cedar-birds; 10 Mockingbirds; 3 Heermann's Song Sparrow
100 House Finches; 15 Arkansas Goldfinches; 15 Pileolated Warbler
20 West. Chipping Sparrows; 50 Cal. Towhees; 10 Yellow Warblers
10 Ariz. Hooded Orioles; 5 West. Warbling Vireos; 20 Audubon's Wren
5 West. Bluebirds; 8 Cal. Shrikes; 6 Bullock's Orioles;
6 Arkansas Kingbirds; 15 Intermediate Sparrows;
5 West. Lark Sparrows; 20 West. Meadowlarks; 15 Mourning Dove
25 Cal. Bush-tits; 2 Black Phoebe; 10 Lewis's Woodpecker
25 Cal. Woodpeckers; 8 Black-headed Grosbeaks; 30 West. Gnatcatchers
10 Desert Sparrow Hawk; 15 Plain Titmouse; 5 Spurred Towhee
8 Ash-throated Flycatcher; 15 Parkman's Wren; 1 Am. Barn Owl
5 Little Flycatchers; 5 Golden-crowned Sparrow; 6 Cal. Thrasher
35 Black-throated Gray Warblers; 6 Wren-tit; 15 Cal. Jays;
4 Turkey Vulture; 2 Least Vireo; 10 Hutton's Vireo;
10 Lutescent Warblers; 50 Band-tailed Pigeons; 10 Black-chinned
15 Calaveras Warblers; 1 Red-shafted Flicker; 5 Cal. Partridge
5 Thumber's Junco; 1 West. Red-tail; 5 Brewer's Blackbird;
3 Red-winged Blackbird; 1 Golden Eagle, + Swallows.

The Calaveras Warbler is a new bird to me. It acts like any other warbler and has a low "chit." Found a Gnatcatcher's nest completed.

Set - Cal. Bush-tit $\frac{23}{5}$; Incub. far advanced; Nest, 10 ft up, in oak; Made of lichens, web, Oak blossoms, leaves etc, etc. One egg in this set was a runt, being nearly as small as a hummer's egg.

Set - Cal. Bush-tit $\frac{24}{7}$; Incub. - advanced; nest, 7 ft up, in oak, partly in wild cucumber vine; made of wool, lichens, sticks, leaves, etc. Both sets were collected below Big Santa Anita Canon. Took another set of 5 Bush-tits,

but they were too far advanced to save; nest, 10 ft up in oak; made almost entirely of lichens.

- 271 Calaveras Warbler ♂ — l-5. s- $7\frac{1}{2}$. w- $2\frac{1}{2}$. t-2.
 272 Calaveras Warbler ♀ — l- $4\frac{3}{4}$. s- $7\frac{1}{8}$. w- $2\frac{3}{8}$. t- $1\frac{7}{8}$.
 273 Black-throated Gray Warbler ♂ — l-5. s- $7\frac{1}{2}$. w- $2\frac{1}{2}$. t-2.
 274 Black-throated Gray Warbler ♀ — l-5. s- $7\frac{1}{4}$. w- $2\frac{1}{2}$. t-2.
 275 Little Flycatcher ♂ — l- $5\frac{5}{8}$. s- $8\frac{1}{4}$. w- $2\frac{5}{8}$. t- $2\frac{3}{8}$.
 276 Ash-throated Flycatcher ♂ — l- $8\frac{5}{8}$. s- $12\frac{1}{2}$. w-4. t-4.

April 14, 1895.

Clear, but heavy West wind.

April 15.

Clear. Warm.

April 16.

Clear Warm. Went out for a while this evening.

Saw first Costa's Hummers of the season, old Yellow Warbler, Least Vireo, Ash-throated Flycatcher, Rufous Hummer, Black-chin Hummer, Bullock's Oriole, Ariz. Hooded Oriole, Cedar bird, etc.

I heard a lot of Towhees & Wren-tits yelling in a bush, and on approaching I saw a small spermophile run on. In the bush was a Cal. Towhee's nest, with the remains of 3 or 4 eggs. Two of the eggs were whole, with holes bitten into the sides and completely sucked.

Set. Cal. Shrike $\frac{30}{6}$. Advanced. Nest 2 ft. up in Sumbark, made of sage & sticks. Barko Chir Pen San near Slaughterhouse In Arago.

Set. Mockingbird $\frac{3}{4}$. Advanced. Nest 3 ft. up in oak. Walpole sage, feathers & hair. Near Slaughter House.

Set. Cal. Towhee $\frac{13}{4}$; Fresh; Nest 18 in up,
in low bush; made of sage grasses & hair.
Near Slaughter House.

Set. - Cal. Bush-tit $\frac{9}{6}$. Nearly Hatched; Nest 6 ft up,
in oak; made of lichens, oak blossoms & sage. Couldn't blow.

Set. - Cal. Bush-tit $\frac{9}{6}$; Far advanced; nest 8 ft up,
in oaks. Made of down, lichens, small sticks, etc.

Set. - Cal. Bush-tit $\frac{9}{6}$; Far advanced; Nest 9 ft up,
in oak; Made of down, lichens, small sticks, etc, etc.

If I had been a week earlier, I would have got some nice ones.

April 17.

Clear. Warm. Went up to fields to left of
Mo R Hill. Found my first sets of
Mex. Horned Lark, $\frac{1}{3}$, $\frac{2}{4}$, $\frac{3}{4}$. Fresh or begun. The
nests were all the same, Being hollows scratched
in the ground by a weed, so that the leaves hung
over. The hollows were lined thinly with grasses.
The birds flush at a distance of about 30 ft.
The nests were all on the side of the road where
the grass was thin.

April 19, 1895

Foggy all day. Murky. Went down to the cañon this evening. Saw quite a number of Aud. Warblers also another Lazuli Bunting. Also Texan Nighthawk Lewis's Woodpeckers, etc. Got a set ($\frac{3}{4}$) of Barn Owl out of the same hole as I got set $\frac{2}{4}$; Fresh. Also got a set of Col. Towhee nearly hatched.

April 20, 1895.

Foggy nearly all day. Went up to Devil's Gate today. Got sets ($\frac{14}{4}$) Col. Towhee, fresh; and Parkman's Wren ($\frac{5}{8}$) fresh. The wren's nest, was 10 ft. up, in old woodpecker's hole, in dead sycamore stub. Nest made of sticks, grasses, & bits of snake skin, as usual; In cañon just above Devil's Gate, with second bridge. Saw lots of Lazuli Buntings, Black-headed Grosbeaks, Least Vireos, Ash-throated Flycatcher's, yellow Warblers, Pileolated Warblers; also Calaveras Warbler, West. Woodhewer, Little Flycatcher. Muntit

37. *Thalassidroma* *leucophaea* *leucophaea* $6\frac{1}{2}$ $3\frac{1}{2}$
38. *Thalassidroma* *leucophaea* *leucophaea* $8\frac{1}{2}$ $3\frac{1}{2}$
39. *Thalassidroma* *leucophaea* *leucophaea* $6\frac{1}{2}$ $3\frac{1}{2}$

April 24,

Chas. Black-headed Grosbeaks & Cedar Waxes
are very abundant around the place, also
Yellow & Red-tailed Vireos.

April 22,

April 24.

July 1st - 1891

8/7 - 1891

290. - 1891

1891 - 1891

1891 - 1891

1891

1891 - 1891

1891 - 1891

1891 - 1891

April 27, 1895.

Cloudy; Rain all day till about 3 o'clock.
Saw following birds about the place -
West. Bluebird (one flying north), Cedar bird,
house Finch, West. Lark Sparrow, Arkansas Kingbird,
Lawrence's Goldfinch, Mockingbird, West. Chipping Sparrow,
Ariz. House Wren, Red-tailed Hawk, Lake Towhee,
Arkansas Goldfinch, Indigo Bunting, West. Yellow Warbler,
Lawrence's Song Sparrow, West. Yellowthroat, Black-bellied
Plover (very common), West. Wood Pewee,
Red-throated Flycatcher & Buff-breasted
Sparrow, several species of the Mockers &
Lutes Wrens, Saw also West. Woodcock, Mourning Dove,
Little Blue Owl, All Skink, Copperhead, White-bellied
Serpent, Night Hawk, West. Lawrence Sparrow, White-lined
Sparrow, Red-shouldered Hawk, Wren-tit, Red. Partridge,
Lawrence's Sparrow, West. Mockingbird, Red-throated
Sparrow, (1) Flycatcher, Indigo Bunting,
West. Woodcock, Arkansas Warbler, Little Sparrow,
Cactus Wren & House Wren.

a party, going to the west. There are the
 first I have seen this year. The
 Bullfinches are nearly completed.
 The Bullfinches are singing, and most
 of the birds are in their usual places.
 The Night Hawks are common on the
 water. The bird I shot must have
 laid in two or three days.

291. House Night Hawk ♂-l-9 2-22½ w-7½ T-4½
 292. House Night Hawk ♀-l-8¾ 2-20½ 2-7¼ T-4½
 293. Black-chin Hummer ♂-l- 2- 2- 4-
 294. Costa's Hummer ♂-l- 2- 2- T-
 295. Calais's Hummer ♀-l- 2- w- T-
 296. House Wren Flycatcher ♂-l- 2- w- T-
 297. Little Flycatcher ♂-l- 2- 4- T-
 298. Red-throated Flycatcher ♀-l- 2- w- T-
 299. West. Chipping Sparrow ♀-l- 2- w- T-

April 28

Cloudy, with rain & strong west wind.
 Saw one White-throated Swift flying over

507. Redpoll. 40000 $\frac{2}{5}$

ground but few of eggs in nest.

307. Cliff Swallow δ — $1-5\frac{1}{2}$ 0-12, 4-4 $\frac{1}{4}$ 7-2,

308. Cliff Swallow η — $1-5\frac{3}{8}$ 0-11 $\frac{3}{8}$, 4-4 $\frac{1}{8}$ 7-1 $\frac{5}{8}$

309. Tree Swallow δ — $1-5\frac{3}{4}$ 0-12, 4-4 $\frac{1}{4}$ 7-2

May 4, 1895.

Clear and very

fine

Cloudy early. Wind up to 10 mph. in evening.

Some light rain in evening. Wind up to 10 mph. in evening.

1. Redpoll. Thrush. West. Chipping

2. Redpoll. $\frac{2}{5}$ 40000

3. Redpoll. $\frac{2}{5}$ 40000

4. Redpoll. $\frac{2}{5}$ 40000

5. Redpoll. $\frac{2}{5}$ 40000

6. Redpoll. $\frac{2}{5}$ 40000

7. Redpoll. $\frac{2}{5}$ 40000

8. Redpoll. $\frac{2}{5}$ 40000

9. Redpoll. $\frac{2}{5}$ 40000

10. Redpoll. $\frac{2}{5}$ 40000

11. Redpoll. $\frac{2}{5}$ 40000

12. Redpoll. $\frac{2}{5}$ 40000

West. Savannah Sparrows in the grain-fields;
 they had notes like some in nest 2373-3-2. Also a large
 flock of yellow-bellied Blackbirds in the
 marshy fields. Saw only
 one male in flight. Saw
 a single male in flight. Saw
 a single male in flight.

- 305 Blue-bird: till 7. L- $14\frac{1}{2}$ S- $27\frac{1}{2}$ W-9. T- $3\frac{3}{8}$.
 306 Parrowing Owl ♂ — L-9. S-25. W- $6\frac{7}{8}$. T- $3\frac{1}{4}$.
 307 Yellow-headed Blackbird ♀ — L- $8\frac{1}{2}$ S- $14\frac{1}{2}$ W- $4\frac{5}{8}$ T- $3\frac{3}{8}$.
 300 Yellow-headed Blackbird ♀ — L- $8\frac{3}{8}$ S- $14\frac{1}{2}$ W- $4\frac{5}{8}$ T- $3\frac{1}{2}$.

May 4.

Partially Cloudy. Sultry. Went out
 to the Santa Anita Oaks. A new bird:
 Hermit Warbler. Got two males; they
 were in oaks, & acted like any other warbler.
 Saw also the first Olive-sided Flycatcher of
 the season. Also Black-throated Gray Warbler (1),
 several least Vireos, large numbers of Ind. Warblers,
 Vireos, Louisiana Tanager, Say's Bluebird,
 Red-tailed Warblers, West. Yellow Warblers, etc.
 West. Flycatcher, Little Flycatcher, etc.

eggs were normal size; Cal. Thrasher
 $\frac{2}{3}$, as usual; Costas Hammer $\frac{7}{2}$ $\frac{3}{2}$;
 nests on ground cactus. Lark on
 set of House Finch $\frac{6}{4}$, without a single
 spot.

May 7.

Clear. Very Warm. Went up to
 Aladen this evening. Not sets $\frac{1}{4}$ $\frac{2}{4}$
 of B. - Black B. D. - L. as usual. 2nd House
 Dove, badly incubated.
 304 Bullock's Oriole ♀ — $17\frac{1}{4}$ - $11\frac{1}{4}$ - $5\frac{1}{4}$ - $2\frac{7}{8}$

May 8.

Clear. Very Warm. Saw some birds
 on the place - a pair of House
 up to the average this evening. Set a set
 of House Finch $\frac{2}{4}$ with 15 eggs in
 thick of low brush & there very dry.
 I thought the Costas Hammer, the Lark
 and the House Finch were very dry.

May 9.

Clear Very Warm.

May 10.

Clear Very Warm. Took two sets of Cliff Swallow this evening of 3 & 5. The set of 3 was probably incomplete. It was on Summit Ave. (Vogel's). Has 34 nests under the eaves, two under the North eave, 4 under the South eave, and the rest equally divided along the East and West sides. The nest with 5 was thinly lined with grass; but the nest with 3, had no lining.

Saw about town today Cedar birds, Red-headed Grosbeak, Russet-backed Thrush, etc.

May 11, 1895.

Clear Very Warm. Went up to Grey's Excursion to where trail goes out of the snow. Saw following birds:— Least, Hutton's, West. Warbling V. Cassin's Vireos; West. Yellow Warbler; Bulwer's Woodpecker; White-throated Swift; White-bellied Swallow;

Western, Ash-throated Flycatchers; Olive-sided
Flycatcher (4 or 5 high up, sheltering on the dead
Pines); Red-shafted Flicker (1); Gairdner's
Woodpecker (1); Canon Wren (1); Cal. Jay;
Blue-fronted Jay (1); Louisiana Tanager; etc.

Found nest of Cassin's Vireo; 8 ft. up, on
branch of White Oak hanging over trail; attached
by rim to several twigs; composed of grass
and lined with fine round grasses; just like
a warbling Vireo's nest. Set $\frac{1}{5}$, too badly
incubated to save, like Warbling Vireo eggs.

Took 2 sets of 4 Western Flycatcher eggs
very early; also $\frac{1}{6}$ fresh Parkman's Wren;
the bird stayed on till flushed off, but
did not reappear. Also 8 sets of ⁴ Black-chinned
Hummer, all fresh. Found at least 20 other
nests either completed or containing an egg
Hummers are very abundant, as also is
the honey-suck, because of the great
profusion of wild flowers.

Saw a pair of Thunders Juncos making
lots of noise on the side of the Canon, but
couldn't find any nests.

$\frac{1}{16}$ West. Flycatcher ♀ — $l-5\frac{5}{8}$ $2-9\frac{3}{8}$ $w-1\frac{1}{2}$ $T-1$
 $\frac{3}{4}$ Cassin's Vireo ♀ — $l-5\frac{3}{8}$ $2-8\frac{3}{4}$ $w-2\frac{3}{4}$ $T-1$

May 12.

Clear Warm. The gray wrens are very
thick but I have seen West. Whipping Sparrows
& numerous Blackbirds eating lots of them.

May 13, 1895

Clear. Foggy in the morning. Went up to
the canyon this morning. Saw Phainopepla
long tailed Chat, Violet green Swallow, House Wren,
Thrush, etc. Saw many many groups of
Spurred Towhees. Lots of Black-chin
Hummers.

♂ Black-chin Hummer ♀ — $l-3\frac{3}{4}$ $2-4\frac{1}{4}$ $w-1\frac{1}{2}$ $T-1$

May 14.

Clear Warm.

May 17, 1895.

Clear Morning. The first thick clouds of the season appeared in the East. Saw some Cal. orioles today, on the place. Went up the arroyo. Saw some so far as *Hesperis* after noon. Took several of the birds in the house; also at Cal. Quail 4 in one place; Cal. Towhee 4 fresh; & Red Winged Star about Mouth of Canon. Wren-tits, Song Sparrow; Plain Plover, long-tailed Chat, Cal. Thrasher, Cal. Jay, West. Woodpecker, Red. Vireo, Red. Wren, Scaup etc.

May 18.

Partially foggy. Continued on up the arroyo. Saw following birds near Duck Canon. West. Woodpecker, Olive-sided Flycatcher, West. Flycatcher, Ash-throated Flycatcher, Button's Wren, Cassin's Wren, West. Yellow Warbler, Dickcissel's Woodpecker, Wren-tit, Red-shafted Flycatcher, Louisiana Tanager, King Bird, Lincoln. Spurred Towhee, Blue Robin & Cassin's

Black-headed Grosbeak, Mourning Dove, Turkey Vulture,
white-throated Swift, etc. Took several
sets of White Flycatcher of 3+4; all the nests
were similarly placed, in hollows or layers
of bark on sides of trees. Took one set
of Red-bellied Vireo - 6; several Black-bellied Hummer
West. yellow Warbler, set of 4, nest 10 ft up on a
limb; 1 set Cassin's Vireo 5; about 15 ft up,
a twig of alders.

May 19.

Clear at San Juan, hazy on trail, and misty
in the valley. Much of the morning. The
following birds on the river about the camp -
Hutton's & Cassin's Vireos; Parkman's Wren (all the
nest - one in process of construction); Tiger's Wren
on the bank on the mountain sides, the number
very considerable. Also a very large number of
singles of families of young fully fledged, (Red-bellied);
Lutescent Vireo; Harris's Woodpecker; (all found on the forest on the trail).

Blow to move / a few in the brush); West Gnatcatcher
(a few in the brush & trail); Townsend's Junco
(Saw several adults and one family of fully
fledged young, the latter make lots of noise);
Olive-sided Flycatcher; West Flycatcher (found one
nest with one egg, all the birds are much in
sight there in the lower canon); Lind's
Woodpecker (found one nest in a cottonwood
about 20 ft up, couldn't get at it); White
Throated Swifts (nesting on the cliffs above the
falls); Black-headed Grosbeak; Black-chinned
Gray Warbler (Saw several in the woods, found
one nest containing 4 young 12 ft up, in oak
bird hanging over trail); West yellow Warbler;
Canon Wren; Turkey Vulture; Spurred Towhee;
Black-bird & Cedar's Hummer (about 100 ft up
trail, found 2 Black-birds & 1 Cedar's Hummer, found
one). Canyon Wren also in the
lower canon, but no other set of West. Gnatcatcher
and some other birds.

312 Olive-sided Flycatcher 5 p 5. a-12. u- $\frac{1}{2}$ to $3\frac{1}{2}$
313 Vigors Wren 8 juv. — 1-5. a-7 a- $2\frac{1}{8}$ to $1\frac{7}{8}$

May 20, 21, 22, 23, 24.

Clear Pleasant. Foggy in morning.

May 25, 25.

Clear. Went out to Santa Anita in the
afternoon. — 4:30 to 5:30
Col. Woodpecker 6 6. — 1/2 mile from
the C. & N. R. road was looking out of
hole, and a top in the tree. not in the
flying. They did not come out of the
Saw no unusual birds. Saw many
fully fledged juncos, & finches. I
saw no Woodpeckers at all.
Although I did go through the hole where
they usually are, but saw none. One day
before. Found two quail in the
field and a Red-winged Blackbird. The other birds
were seen in the field with a few more.
I did not see any. Saw a Yellow Bird.

May 26

Clear. Warm. Spring equinox.
Birds are everywhere. The pair
of Hawks which nested a week ago
in the Unitarian Church in March &
April, have built a second nest in
the same place and are sitting.

May 27.

Cloudy most of the day with hazy rain
in the evening.

May 28.

Clear, with heavy cold north wind.
Went up to mouth of Millbrook Gorge this
afternoon. Found several Black-birds in
nests with young. Saw a House Wren sitting
on a nest, which was fully 30 ft up, and
resting in a bunch of leaves at the top
of a bush. Took a lot of other birds.
Saw a pair of Goldfinches in a tree.

notes are quite different from those
of any other Flycatcher, being a clear
^{loud} ^{whist} ^{something} like the call-note
of a Rose-backed Thrush. Seen also
Least West. Warbler, & Cassin's Vireo, several
White-throated Swifts, large numbers of
Violet-green Swallows, etc.

318. Little Flycatcher ♂ — L $5\frac{3}{8}$ W $4\frac{1}{2}$ T $2\frac{5}{8}$
319. Violet-green Swallow ♂ — L 5 W 4 T 2
320. Costa's Hummer ♂ — L $3\frac{5}{8}$ W $1\frac{1}{2}$ T 1

May 29.

Clear. The North-west wind continues. Song
common and more like a "Santa Ana".

May 30.

Clear. Went up the arroyo side canon today.
Took note of Ash Vireo, Laz. Tanager, Rufous Warbler,
C. W. Black-chinned Hummer, West. Flycatcher, & the Rose-b.
bush note containing song of Ash. When several Ws.
Black-ch. Hummer, Ash Bushl. West. Flycatcher
West. Yellow Warbler. Seen "the"

other side, took a set of 4 Black-throated S.
Warblers. Insethwa advanced. The nest was
in a small oak, in a dark shady bend
of the canon; 10 ft. up, composed as usual.
Found a nest of Hutton's Vireo containing
one fresh egg. The Tongues are just
beginning to lay, as also on the Wood Pewee.

Saw White-throated Swifts, West-gate Swallow,
Canyon Wren, Flycatcher, Harris's Woodpecker, etc.

May 31.

San. Mon.

June 1, 1895.

Went up to Millard's. Saw today. Look
a new set! Blue-fronted Jay's, incub.
freshness; nest 15 ft. up, in fork
end of oak branch, composed of sticks, —
willow, with mud, and lined with cotton.
Found another nest in log-tree with one
egg. The birds set about, but were very
shy.

Took also set of Cassin's Vireo $\frac{1}{4}$,
Costa's Hummer, Lazuli Bunting (long of
the corner above fallow). Louisiana Tanager
 $\frac{1}{3}$ fresh. Saw a pair of Thrushes
juncos, though they didn't seem to
have any nest.

321. Cassin's Vireo - l- $5\frac{3}{4}$ s- $9\frac{1}{4}$ w-3 t- $2\frac{3}{8}$.

322. Bell's Sparrow - l- $6\frac{1}{8}$ s- $8\frac{3}{4}$ w- $2\frac{7}{8}$ t- $2\frac{3}{4}$.

June 2.

Clear Warm.

June 3.

Clear. Quite Warm. Went up the range
saw some this afternoon. Took set
of 3 Wood Pewee. Saw a Black-headed
Gnatcatcher in the brush, below Simmons.
Can easily see the difference between this
and the western, by the jet black
crown of the head. Saw also Little
Flycatcher, Long-tailed Chat, Bell's Sparrow,
and two Rufous-crowned Sparrows.

Scrub Owl out of the same hole as the nest of
Sp. Hawk - May 4. I saw him again
just - May 25. Wm. D.

are exceedingly abundant now, and a few are
beginning to nest. The freshly-cut grain fields
are full of them. Saw a flock of 200 or 300
about 4 or 5 days ago, together. No. 223.

June 6 & 7.

Logg in the morning, Howard,

June 8,

Found several Red Plover's nests with
hatched eggs.

324. West. Wood Pewee ♀ — $l. 4\frac{1}{2}$ — $w. 3\frac{1}{2}$ — $t. 4\frac{1}{2}$
325. Say's Bunting ♀ — $l. 5\frac{1}{4}$ — $w. 3\frac{1}{4}$ — $t. 4\frac{1}{4}$
326. Ark. Goldfinch ♀ — $l. 4\frac{1}{2}$ — $w. 2\frac{1}{2}$ — $t. 3\frac{1}{2}$
327. Blue-fronted Jay ♂ — $l. 12\frac{1}{2}$ — $w. 8\frac{1}{4}$ — $t. 5\frac{1}{2}$

June 9, 10

Trapped in morning. Pleasant.

June 11, 1895.

Clear. Shot a set of Ring-necked Pheasant. $\frac{2}{7}$
up in a pine tree 8 ft up.

June 12.

Shot up this P. in morning. Shot a set
of ~~Ring-necked Pheasant~~ ⁹/₄. The set was
in a pine tree 10 ft up on the edge
of woods. Shot a set of ~~Ring-necked Pheasant~~
in a pine tree 10 ft up. Shot a set
of ~~Ring-necked Pheasant~~ in a pine tree 10 ft up.
Have more. Shot a set of ~~Ring-necked Pheasant~~
in a pine tree 10 ft up.

Saw a nest, very built of *Ceanothus*,
fully 50 ft up, in Sycamore, on outer branch,
June 13+14.

Foggy in the morning. Pleasant.

June 15.

Foggy till about 10 a.m. Went up Middle
Canon today. Took sets of West. Wood

Peewee, Costa's Hummer, Black-chin Hummer,
Ark Goldfinch, & West Flycatcher.

The West Flycatcher's nest was on a shelf of
rock on the side of the canon, and contained
4 nearly fresh eggs.

Went up the
left fork of Middle Canon, far above the fall line.
Found a Black-throated Gray Warbler

nest 10 ft up, on horizontal branch of oak
on side of ravine. It contained young
about a week old. A little farther up,

I found two others - one old one, 6 ft
up, and the other 3 ft above that
one which seemed to be just finished.

Saw following birds: — This side Gate
Bell's Sparrow, Rufous-crowned Sparrow,
Black-throated Gray Warbler, West. Gnatcatcher,
Canyon Wren, Vigor's Wren, White-throated
Rock Swift, Cassin's Vireo, Hutton's Vireo,
Least Vireo, Red-shafted Flicker, Shield
Woodpecker, Violet-green Swallow, West. Red-tail
Spotted (?) Owl (When it came it looked
like an owl when flying, it made a loud
creaking cry, like a large hawk), (?)

June 16 & 17.

Clear Warm.

June 18 19, 20.

Clear, Very Warm.

June 21 & 22

Clear Warm. Went up to Mather
park these two days. Saw following
birds from Mather's Hotel on up to the park
Red Jay (Saw them as far as "Mather's point")
Cottontail, Hummer, Black-chin Hummer (Saw

neither species above the "half-way house",
Wren-tit (Common to the very summit), Spurred
Towhee (Common to the top, in brush mostly), Cal. Thrasher
(Saw none beyond the half way house, they are
going in small flocks), Lutescent Warbler (Saw
one on the flats and one beyond the "half-way"),
West. Gnatcatcher (Common to the summit, in
brush), Red-shafted Flicker (Saw several near
Strain's camp), Rufous-crowned Sparrow (Heard
above in the brush at Henniger's), Olive-backed
Flycatcher (Heard through all the way up from the
flats), Cal. Thrasher (Saw 3 or 4 on the very
summit in pairs), Cal. Towhee (At Henniger's
only), Black-headed Grosbeak (Saw 2 or 3 on
the Peak), Vigors Wren (Common all the way
up in brush), Louisiana Towhee (Common
to the summit, mostly in the pines), Plain Tit
(To the summit in the brush), West. Flycatcher
From the halfway to the summit, found a lot
containing some of the following in small

on side of head for wings, & up), Cassin
Vireo (Saw a few along by the halfway), Hutton
Vireo (2 at summit), Black-throated Gray Warbler
(Common from halfway to Peak. Saw lots of
young following old birds about and being fed, found
also a nest containing nearly hatched young, 2 ft
up in horizontal limb of oak log-trunk near
Harrison Camp, I spent an hour with birds kept
about very nervously with a worm in his bill
I lay down in the trunk to catch him, presently
he came on a lower branch of the tree a little further
which looked very much like a nest, and
2 inches from it the female bird sitting
motionless perfectly rigid and still, I watched
fully 15 minutes before she suddenly came down
to the nest with her worm, when 3 young
popped up their heads, and at the same
instant the female took up and flew
about as lively as ever. Found also the
nest with 4 eggs & one young well hatched

10 ft. up, on horizontal branch of oak near the
halfway), White-throated Swift (Saw 5 or 6
from Halfway to Peak), Violet-green Swallow
(Very common among the Pines and along
the ridges at the summit, Saw several
entering holes in dead pines & firs, where
they probably had nests. By the house
on the summit of the Peak is a small
heap of fairly porous limestone, on
this heap the Swallows & Martins
would constantly light, and sit on
the smaller pieces), Ash-throated
Flycatcher (Saw a few from Halfway to the Peak),
West. Wood Pewee (Common on summit,
where I found a nest 15 ft. up, on dead oak),
Gairdner's Woodpecker (Saw 2 or 3 on Peak),
Cal. Woodpecker (Saw 2 or 3 among the dead trees
on Peak), Cal. Screech Owl (heard one at
night near Martins), Gambel's Quail (Saw
a pair at Halfway, and lots of them

on the V. I. about Strain's), Parula's
Wren (Common on Peak, Saw a nest in crack
in bark in dead fir 40 ft. up), Band-tailed
Pigeon (Saw one flying over trail above halfway
Summit Wattle (Saw one I heard another above
fir below Martin's, The song is very faint
PPa), Canon Wren (Saw 4 heard several
among rocks near Peak), Turkey Vulture,
Blue-headed Jay (Common about Peak), West. Martin
(Common about Peak, They nest high in the
dead firs, saw some entering holes in
dead firs fully 75 ft. up, they probably had
young), West. Chipping Sparrow (Common
among firs about Strain's, etc. of
fully fledged young), Harris's Woodpecker
(Common from Halfway to Peak),
West. Bluebird (Common on Peak, a nest
30 ft. up, in hole in dead fir about 100 yds.
Audubon's Warbler (Common on Peak among firs,
the adults were feeding the young and

were very noisy, and appeared to have only
left the nest a few days), West. Warbling Vireo
(Saw 2 or 3 on Peak), Lawrence's Goldfinch (Saw
quite a number on the Peak, saw one pair
building a nest high up in a fir), West. Yellow
Warbler (Heard one on the Peak), Slender-billed
Nuthatch (Common about Strain's), Mountain
Chickadee (Saw 2 near Strain's), Cal. Purple Finch
(Common about Strain's, saw a female carrying
material for a nest high up in a fir),
Calliope Hummer (Common about flowers on Peak),
Mourning Dove (On Peak), Anna's Hummer
(Saw 2 or 3 near halfway, & on Peak),
Cal. Creeper (Common among firs near Strain's)
Mountain Partridge (Saw a ♀ with a
brood of young near Strain's. They were
having a dust bath in the trail, the old
bird was very solicitous, and the young
did immediately), & Ark. Goldfinch
(Saw 2 or 3 at Hemlock Point).

328. Mountain Partridge, juv.
329. Slender-billed Nuthatch ♂ juv. - $l=8\frac{1}{2}$ $2=10\frac{1}{4}$ $3=4$ $t=2$
330. West. Martin ♂ ad. - $l=8\frac{1}{2}$ $2=11$ $w=5\frac{1}{2}$ $t=2$
331. West. Martin ♂ juv. - $l=8\frac{1}{2}$ $2=10\frac{1}{4}$ $w=5\frac{1}{2}$ $t=2$
332. Cal. Creeper ♂ ad. - $l=5$ $2=1\frac{1}{2}$ $w=2\frac{5}{8}$ $t=1$
334. Cal. Partridge ♀ ad. - $l=10\frac{1}{4}$ $2=14$ $w=1\frac{1}{2}$ $t=2$
333. Cal. Purple Finch 1 ♂ - $l=6\frac{3}{8}$ $2=10$ $w=3\frac{1}{4}$ $t=2$

The testes of the young-plumaged Martins were very large; probably the bird was one of the second year. The ♀ Cal. Partridge contained a full-sized egg.

June 23, 24.

Foggy only in the morning Pleasant. Saw some Martins flying high over the hills and singing.

June 25

Pleasant. Went up to the hills this afternoon. Found a Black-throated Gray Nuthatch's nest. It was the first I built on the 10th. Last passed out.

and is probably mounted. Took 3 sets
of incubated Blackish Hummer, and one
set of 4 West Flycatchers. Saw
Olive-sided Flycatcher, Cassin Wren, White-
throated Swift, Violet-green Swallow, etc.

335. West. Flycatcher ♀ — l. $5\frac{1}{2}$ s. 8. w. $2\frac{1}{2}$ t. $1\frac{1}{2}$

336. West. Flycatcher ♂ — l. 6. s. $8\frac{1}{4}$ w. $2\frac{1}{4}$ t. $1\frac{1}{2}$

June 26, 1898.

Very early in the morning. Pleasant.

June 27.

Very all over the place. Pleasant. Went on journey
up Millard's canon. Saw nests containing

young of Cassin's & Blackish Hummers.

Took a set of 4 fresh West Flycatchers; nest
3 ft. up on side of sloping rock on side of canon.

June 30.

Clear.

July 1.

Saw several West Blackish Hummers. Many
Hans in Avon. Day afternoon. E. wind.

July 2, 3, 4.

Weggs in the Morning Pleasant

July 5

Clear Warm. Sun out about

4 1/2 hours on Willows & C-ks. —

Small Crows, West Vireo, West. Whistling
Vireo, Black-headed Grosbeak, Western
Goldfinch (Saw a nest with young).

Robin etc.

July 6, 7.

Clear Warm.

July 8

Started on a mountain trip today with
my gun, and 1250 packs of specie. Saw
H. Campbell on the way. Went down
about 7 miles and arrived at
the old mill. Stopped up the road at 4 miles
and found some small Pines, about
7 3/4 miles. The horses were very tired.

They were all in life for last night and
sweat terribly coming up the trail.
Saw no unusual birds. Killed
this morning a Solitaire. It was in
a cotton log and the first I saw it.
July 9

Clear Warm. Saw following birds from
forks above Sweetgate to 100 yds. Beyond
trail past house, where we camped for
the night: Calhoun Sparrow, House Sparrow (1st
of both kinds), Hummingbird ^(1st) Gnatcatcher, West. Flycatcher,
Red-throated Flycatcher, White-headed Flycatcher (one
young with white tail, in a tree, very young),
West. Bluebird, Ls. Tanager, Black-headed Grosbeak,
Cal. Purple Finch, Yellow Finch, 1 young Wren,
Ls. Wren, Wren, Gnatcatcher, Green Wren,
Rufous-backed Sparrow, Hummingbird,
Cal. Thrasher, Yellow Warbler, Blue-backed Wren,
Black-chinned Warbler, White-eyed Wren.

White-throated, Red-tailed Woodpecker,
Hairy Woodpecker, Desert Sparrow Hawk,
Sharp-shin Hawk, West. Goshawk^W (A very
dark-colored bird, large, with white on tail
and a small white marking across
each wing), Wren-tit, Plain-tit, Rufous
Hummer, Lawrence's Goldfinch,
White-throated Swift, Turkey Vulture, Cal. Jay,
Red-shafted Flicker, Blue-headed Jay,
West. Gnatcatcher, West. Chipping Sparrow.

July 10.

Clear. Down at camp by divide this
morning found a $\frac{1}{3}$ forest of Spruce
Timber; rest a ground a grassy area with
brush at camp a rocky place at 12, after
a very steep descent through brush. Not
seen anything new or common. Saw Cal. Goshawk
lots of West. Chipping Sparrows, etc.
Saw lot of desert quail, but no deer. Saw

are a few ground squirrels, but
no other mammals to be seen.

337 West. Chipping Sparrow ♀ — l- $5\frac{1}{2}$ 2- $5\frac{1}{2}$ w- $5\frac{3}{4}$ t- $2\frac{1}{2}$

338 West. Wood Pewee ♂ — l- $6\frac{1}{4}$ 2- $10\frac{1}{4}$ w- $5\frac{1}{2}$ t- $1\frac{1}{2}$

339 West. Martin ♀ — l- $7\frac{3}{8}$ 2- $15\frac{1}{2}$ w- $5\frac{3}{4}$ t- $2\frac{1}{2}$

July 11.

West Hill

11

St. John

St. John

Highway

View
Hall

Bull's Head

Divide

Flat

Water

2000

North

East

17

East

340. Plain Lt J- R. $5\frac{1}{2}$, 6-9, w. $2\frac{7}{8}$ $\pm 2\frac{1}{2}$.

341. West Walling Vine — $l\ 5\frac{1}{2}$, $d\ 8\frac{3}{8}$ $\rightarrow 2\frac{5}{8}$ $\times$ 2 .

July 12.

This image shows a blank, aged, cream-colored page, likely an endpaper or flyleaf of a book. The paper has a slightly textured appearance with some faint smudges and discoloration, characteristic of old paper. The left edge of the page is bound into a dark, textured cover, possibly leather or cloth. The overall tone is warm and slightly yellowed due to age.

John H. (last name) 1850

July 11th

Left Denver in the morning. The
following birds were seen in the
valley below the mountains. The
first was a *Rock Wren*. The
second was a *Mountain Chickadee*.
The third was a *Mountain Bluebird*.
The fourth was a *Mountain Goldfinch*.
The fifth was a *Mountain Sparrow*.
The sixth was a *Mountain Linnet*.
The seventh was a *Mountain Vireo*.
The eighth was a *Mountain Thrasher*.
The ninth was a *Mountain Towhee*.
The tenth was a *Mountain Quail*.
The eleventh was a *Mountain Pheasant*.
The twelfth was a *Mountain Partridge*.
The thirteenth was a *Mountain Grouse*.
The fourteenth was a *Mountain Hawk*.
The fifteenth was a *Mountain Eagle*.
The sixteenth was a *Mountain Owl*.
The seventeenth was a *Mountain Bat*.
The eighteenth was a *Mountain Snake*.
The nineteenth was a *Mountain Lizard*.
The twentieth was a *Mountain Frog*.
The twenty-first was a *Mountain Toad*.
The twenty-second was a *Mountain Salamander*.
The twenty-third was a *Mountain Trout*.
The twenty-fourth was a *Mountain Salmon*.
The twenty-fifth was a *Mountain Bear*.
The twenty-sixth was a *Mountain Wolf*.
The twenty-seventh was a *Mountain Fox*.
The twenty-eighth was a *Mountain Coyote*.
The twenty-ninth was a *Mountain Badger*.
The thirtieth was a *Mountain Skunk*.
The thirty-first was a *Mountain Mole*.
The thirty-second was a *Mountain Weasel*.
The thirty-third was a *Mountain Mink*.
The thirty-fourth was a *Mountain Otter*.
The thirty-fifth was a *Mountain Beaver*.
The thirty-sixth was a *Mountain Muskrat*.
The thirty-seventh was a *Mountain Raccoon*.
The thirty-eighth was a *Mountain Possum*.
The thirty-ninth was a *Mountain Armadillo*.
The fortieth was a *Mountain Squirrel*.
The forty-first was a *Mountain Chipmunk*.
The forty-second was a *Mountain Marmot*.
The forty-third was a *Mountain Ground Squirrel*.
The forty-fourth was a *Mountain Prairie Dog*.
The forty-fifth was a *Mountain Rabbit*.
The forty-sixth was a *Mountain Hare*.
The forty-seventh was a *Mountain Deer*.
The forty-eighth was a *Mountain Elk*.
The forty-ninth was a *Mountain Buffalo*.
The fiftieth was a *Mountain Horse*.
The fifty-first was a *Mountain Cow*.
The fifty-second was a *Mountain Sheep*.
The fifty-third was a *Mountain Goat*.
The fifty-fourth was a *Mountain Camel*.
The fifty-fifth was a *Mountain Lion*.
The fifty-sixth was a *Mountain Tiger*.
The fifty-seventh was a *Mountain Leopard*.
The fifty-eighth was a *Mountain Panther*.
The fifty-ninth was a *Mountain Jaguar*.
The sixtieth was a *Mountain Cheetah*.
The sixty-first was a *Mountain Gazelle*.
The sixty-second was a *Mountain Antelope*.
The sixty-third was a *Mountain Kudu*.
The sixty-fourth was a *Mountain Eland*.
The sixty-fifth was a *Mountain Buffalo*.
The sixty-sixth was a *Mountain Ox*.
The sixty-seventh was a *Mountain Zebu*.
The sixty-eighth was a *Mountain Cow*.
The sixty-ninth was a *Mountain Sheep*.
The seventieth was a *Mountain Goat*.
The seventy-first was a *Mountain Camel*.
The seventy-second was a *Mountain Lion*.
The seventy-third was a *Mountain Tiger*.
The seventy-fourth was a *Mountain Leopard*.
The seventy-fifth was a *Mountain Panther*.
The seventy-sixth was a *Mountain Jaguar*.
The seventy-seventh was a *Mountain Cheetah*.
The seventy-eighth was a *Mountain Gazelle*.
The seventy-ninth was a *Mountain Antelope*.
The eightieth was a *Mountain Kudu*.
The eighty-first was a *Mountain Eland*.
The eighty-second was a *Mountain Buffalo*.
The eighty-third was a *Mountain Ox*.
The eighty-fourth was a *Mountain Zebu*.
The eighty-fifth was a *Mountain Cow*.
The eighty-sixth was a *Mountain Sheep*.
The eighty-seventh was a *Mountain Goat*.
The eighty-eighth was a *Mountain Camel*.
The eighty-ninth was a *Mountain Lion*.
The ninetieth was a *Mountain Tiger*.
The ninety-first was a *Mountain Leopard*.
The ninety-second was a *Mountain Panther*.
The ninety-third was a *Mountain Jaguar*.
The ninety-fourth was a *Mountain Cheetah*.
The ninety-fifth was a *Mountain Gazelle*.
The ninety-sixth was a *Mountain Antelope*.
The ninety-seventh was a *Mountain Kudu*.
The ninety-eighth was a *Mountain Eland*.
The ninety-ninth was a *Mountain Buffalo*.
The hundredth was a *Mountain Ox*.

July 15.

Clear Warm. Dew. Still at Pine Hill

348. Lutescent Warbler 3 juv — l. 5. 2-2 $\frac{5}{8}$ u-2 $\frac{3}{4}$ + 1 $\frac{5}{8}$

349. Reader Bill Nuthatch ♀^{1st} l. 5 $\frac{1}{2}$ 2-10 $\frac{1}{2}$ u-3 $\frac{1}{2}$ + 2

350. Pygmy Nuthatch 3 juv — l. 4 $\frac{1}{2}$ 2-1 $\frac{1}{2}$ u-2 $\frac{1}{4}$ + 1 $\frac{1}{2}$

The Pygmy Nuthatches sound like a flock of chickadees being forced under the old hem.

July 16.

Clear Warm. Today went from Pine Hill to Chilles, about 1 hour journey.

an immense quantity of birds in the Chilles

lawn. Saw several West. Robins and

West. Lark Sparrows. Also skins of

White-headed Woodpeckers, West. Bluebirds,

Violet-green Swallows, West. Meadowlark,

Pygmy & Reader Bill Nuthatches, La. Tanager, W. -

Black-throated, etc. There are lots of mice, sparrows

etc. in the brush, which would be much

larger to look up. Not hunting in the

openings and the leaves of the trees.

July 17.

Even. Went from Lilles to Botten Camp
 today. Had the pleasure of shooting a black
 cat. Saw many more but black but not
 shot.

July 18.

Even. Went from Botten to Botten
 today, returning to Botten in the afternoon.

July 19.

Even. Heard, Charles's instruction, and
 went away to the house. Heard birds
 like a crow in the forest, jays, and another
 like the woodpecker. They put up the
 fence and 4 or 5 other birds.

- 51 Charles's instruction: 5 - 1.15 2.22 3.25 4.5
 76. Will shoot at 3 pm - 1.15 2.15 3.15 4.15
 15. Black cat shot by Botten, 1 - 1.15 2.15 3.15 4.15

July 20.

Even. Birds in the morning, some in the
 afternoon. Thick flocks of birds.

are among the willow thickets. They
 have a very beautiful song, much fuller,
 but resembling that of a Song Sparrow.
 They are exceedingly shy. Also another
Tree Bird Wright's Flycatcher. I saw several
 in the brush. Note - "liquid" whist. One
 was apparently in a pit, lying on the ground.
 On top of Mt. Vernon today, we saw the
 a Red-bellied Woodpecker, pretty - but with
 parent! What I have been calling the
 Woodpecker having the top, from the side, is
 without doubt only Mt. Chickadee. Finally
 the one I had on Mount Peak in June
 was a Chickadee. On July 3 I saw the
 bird, which did not seem to me at all
 at all like a Chickadee.

- 51. Red-bellied Woodpecker - 1.5.8. 1.5.8. 1.5.8.
- 52. 5. 1.5.8. 1.5.8. 1.5.8. 1.5.8.
- 53. 1.5.8. 1.5.8. 1.5.8. 1.5.8.
- 54. 1.5.8. 1.5.8. 1.5.8. 1.5.8.

July 21.

Clear Still at Buckhorn. The
following are the birds which I have seen
about Buckhorn Canon:— West. Bluebird,
West. Robin, Mt. Chickadee, Pygmy Nuthatch,
Slender-billed Nuthatch, Cal. Creeper, Bullock's Wren,
Pileolated Warbler, Black-throated Gray Warbler,
Audubon's Warbler, West. Flycatcher, Myrtle-throated
Olive-sided Flycatcher, Black Phoebe, West. Wood Pewee,
Blue-fronted Jay, Clarke's Nuthatch, Golden Eagle,
Least Sparrow Hawk, Sharp-shinned Hawk,
Mt. Partridge, West. Chipping Sparrow,
Thick-billed Sparrow, Thunder-bus, Junco,
Cal. Brambling Finch, Louisiana Tanager,
Red-shafted Flicker, Hermit Woodpecker,
White-bellied Woodpecker, Veery, Green Siskin,
Acorn Woodpecker, & various others.

July 22.

Went from Buckhorn Canon to Indian Lake. The
country is very beautiful.

Saw several White-throated Swifts flying
about Mt. Islop; also - Mourning Dove.

July 23.

Saw. Just about the same birds as
as at Buckhorn, except the Thick-billed
Fox Sparrow. Went down to Sycamore Flat
on the North Fork in the afternoon. The

bird fauna suddenly changes, and a
Sycamore Flats are West. Yellow Warbler,
Cal. Jay, Ariz. Horned Oriole, Cal. Towhee,
Black-headed Grosbeak, Cal. Woodpecker,
Phainopepla, etc.

July 24.

Continued down the North Fork to Cotton
Rocks. Saw along the stream Belted
Kingfisher, and some kind of Sandpiper.

July 25.

Went down to San Gabriel River to the mouth.
Saw Canyon Rock Wren, along the rocky banks.

July 26.

Went down to the mouth of the San Gabriel River.

July 27.

Clear. Buggy morning. Spent that
at I called Accia's in the morning.
the trip is nothing but juvenile species
in the.

July 28 29. 30. 31.

Buggy morning. Pleasant.

Aug 1. 2.

Clear. Buggy. 50°

Aug 3.

Clear. Buggy. Went down to the river about
10 miles from the city. Saw a lot of

Black-bellied Grebes, also a few

Swamp Sparrows, West. L. Wren, Ch. Wren,
etc. etc. etc. etc. etc. etc. etc. etc. etc. etc.

Went to the river, etc. etc. etc. etc. etc. etc. etc. etc. etc. etc.

Young birds & eggs etc. etc. etc. etc. etc. etc. etc. etc. etc. etc.

358. Cal. Partridge Egg - $L-9\frac{1}{2}$, $S-13\frac{1}{2}$, $W-4\frac{1}{2}$, $T-2\frac{1}{2}$.
359. Cal. Shrike Egg. - $L-9\frac{1}{2}$, $S-12\frac{3}{4}$, $W-4$, $T-2\frac{1}{2}$.

Aug 4.

Saw West. Martins flying over head nearly every day now. Also saw 8 West Bluebirds flying South high up.

Aug 5 to 15.

Mostly Foggy in the mornings, but fair or clear. Warm days.

Aug. 16.

Clear. Quite Warm. Went down to the arroyo by Pumping Engine this morning. Saw following birds:— Russet-backed Thrasher, Lutescent Warbler, Yellow Warbler, Pileolated Warbler, West. Yellowthroat, Cal. Bunting, Least Vireo, West. T., Cal. Towhee, Spurred Towhee, Phainopepla, Cal. Shrike, Black-headed Grosbeak, West. Goldfinch, Red Goldfinch, La. Tanager, Hermann's Song Sparrow, Brewer's Black Bird, Ariz. Hooded Oriole, Anna's Hummer, House Finch, Cliff Swallow, Little Flycatcher, Mourning Dove.

Tree Toad, Rufous Hummer, Cal Jay,
Cal Woodpecker, Nuttall's Vireo, Plain Titmouse,
Black Phoebe, Mockingbird.

Saw a family of young Little Flycatchers, with
dark tails. Birds are very numerous about
the water in willows.

The Pileolated
& Lutescent Woodpeckers are in full plumage,
and are evidently beginning to migrate.

360 Lutescent Woodpecker ♂ — 1-5 2-7½ w 2½ 7-10

361 Pileolated Woodpecker ♂ — 1-5 2-6¾ w 2¼ 7-10

362 Lutescent Woodpecker ♀ — 1-5½ 2-7½ w 2½ 7-10

363 Desert Quail, Desert Sparrow — 1-7¾ 2-10½ w 3½ 7-10½

Aug 17.

Clear. Very warm.

Aug 18.

Very early in morning.

Clear. Warm.

Warmer. Very early in morning.

Aug 19 & 20.

Clear. Warm.

Aug. 21.

Clear. Warm. Saw some
W. t. Bluebirds today. Also 2 or 3
Town Nighthawks flying over head in
evening.

Aug. 22, 23.

Pleasant. Foggy in the morning.

Aug. 24.

Foggy in morning. Very Pleasant.

Went up

Millard's Canon to cabin today.

Saw following

Birds:— Cliff Swallow, Cal. Thrasher, Cal. Jay.

Blue-fronted Jay, Vigors Wren, Ash-throated Flycatcher,

West. Flycatcher, West. Wood Pewee, Ark. Kingbird,

Black Phoebe, Black-throated Gray Warbler, Lutescent Warbler,

Pileolated Warbler, West. Yellow Warbler, Cassin's Vireo,

West. Warbling Vireo, Least Vireo, Hutton's Vireo, Green Heron,

Gray Wooded Owl, Louisiana Cuckoo, Parkman's Wren,

Cal. Towhee, Spurred Towhee, Brown-backed Hummer, West. C.

Pink Titmouse, Foxglove, West. Meadowlark,

Wax-winged Warbler, House Wren, House Finch, Red-winged Blackbird,

Mockingbird, Turkey Vulture & House Finch. Cal. Holly
Hammock's Song Sparrow, Cal. Towhee, Brewer's Blackbird
West. Lark Sparrow, Rufous Hummer, Anna's Hummer
Mourning Dove, Cal. Partridge, House Wren, Woodpecker,
Red-shafted Flicker, Noddy's Woodpecker, West. Goldfinch
Cal. Shrike, West. Gnatcatcher, Black-chinned Hummer
White-throated Swift, & White-eyed Vireo, — 53

The migrations have evidently begun among the
warblers &c. I have seen no warblers yet.

Woodpeckers⁽²⁾ are mostly common in the canyon.
Birds in general are rather scarce; nearly all
the summer birds have gone, that is — regard-
to numbers.

Saw a Black-chin Hummer
nest with two nearly hatched young in. They
squeaked very loudly, when we did not seem
to look at them.

The White-throated
Swifts are almost silent. All the White-eyed
Swallows are courting & chasing along
the mountains.

Got a new Bird —

White-throated Swifts & — very shot. Slick (C).

- 364- Lutescent Warbler ♂ - l- $5\frac{1}{4}$, a- $7\frac{5}{8}$, w- $2\frac{1}{2}$, t-2.
 365- Lutescent Warbler ♀ - l- $5\frac{1}{4}$, a- $7\frac{1}{2}$, w- $2\frac{1}{2}$, t-2.
 366- Lutescent Warbler ♂ - l- $5\frac{1}{8}$, a- $7\frac{3}{8}$, w- $2\frac{3}{8}$, t-2.
 367- Lutescent Warbler ♀ - l- $5\frac{1}{4}$, a- $7\frac{3}{8}$, w- $2\frac{3}{8}$, t- $2\frac{1}{2}$.
 368- Lutescent Warbler ♀ - l-5, a- $7\frac{1}{2}$, w- $2\frac{1}{4}$, t- $1\frac{7}{8}$.
 369- Black-throat Gray W. ♀ - l- $5\frac{1}{4}$, a- $7\frac{1}{8}$, w- $2\frac{3}{8}$, t- $2\frac{1}{2}$.
 370- Black-throat Gray W. ♀ - l- $5\frac{1}{8}$, a- $7\frac{3}{8}$, w- $2\frac{1}{2}$, t-2.
 371- White-throat Swift ♂ - l-6, a- $13\frac{5}{8}$, w- $2\frac{1}{4}$, t- $2\frac{1}{8}$.
 372- Horned Woodpecker ♀ - l-9, a- $15\frac{1}{4}$, w- $4\frac{3}{8}$, t-2.
 373- Red Towhee ♀ - l-9, a- $11\frac{1}{2}$, w- $3\frac{5}{8}$, t- $4\frac{1}{2}$.
 374- Mourning Dove ♂ - l- $12\frac{3}{4}$, a-14, w- $6\frac{1}{4}$, t- $5\frac{3}{8}$.

Aug 25

Foggy - morning. Pleasant.

Aug 26

Foggy - morning. Pleasant.

Aug 27

Foggy - morning. Pleasant.

Foggy - morning. Pleasant.

Foggy - morning. Pleasant.

From 10:30 p.m. in the fog the
clouds were of various shades of
blue and white and some of
white. The morning was the
first of the year of fog & in
the 18th light was better. The sun
appeared but was not seen.

Aug 28

Early morning of the day, mostly to top
of the mountain side. But not
much of a view, with a lot of clouds.

Aug 29

Clear sun. A lot of white
clouds flying by, but not much
black smoke. Good view.

Aug 30

Clear sun

Aug 31

Partly cloudy. Warm.

Went up the Arroyo Seco canon above
John's today, and came down through arroyo
to Devil's Gate. Saw following birds—
Black-chin Hummer, Anna's Hummer, Cal. Jay,
West. Warbling Vireo, West. Yellow Warbler, Lutescent Warbler,
Pileolated Warbler, Cal. Thrasher, Cal. Towhee,
Spurred Towhee, Wren-tit, Plain Titmouse,
Canon Wren, Parkman's Wren, Vigors Wren,
Louisiana Tanager, Ariz. Herodias Oriole,
Phainopepla, West. Lark Sparrow, Mourning Dove,
Mex. Horned Lark, Mockingbird, Turkey Vulture,
House Finch, Cal. Partridge, Desert Sparrow Hawk,
West. Wood Pewee, Black Phoebe, West. Flycatcher,
Olive-sided Flycatcher, Ash-throated Flycatcher,
Violet-green Swallow, West. Meadowlark, Cal. Shrike,
Brewer's Sparrow, Hermann's Song Sparrow,
Ark. Goldfinch, West. Goldfinch, Lawrence's Goldfinch,
West. Gnatcatcher, Ark. Kingbird, Nuttall's Woodpecker,
Cal. Woodpecker (Yellow-bellied).

Birds now exceedingly scarce in the
Canon, and most nowhere abundant.

The Phainopepla were feeding on the
sugarberry in a field of buckthorn.
The Green Heron was by, Belding's place in
the Canon. Sad day, last?

375. Olive-sided Flycatcher ♂ — $l-7\frac{1}{2}$ $a-13\frac{1}{2}$ $w-1\frac{3}{4}$ $t-2$

376. Lutescent Vireo ♂ — $l-5\frac{1}{4}$ $a-7\frac{1}{2}$ $w-2\frac{3}{8}$ $t-2$

377. Phainopepla ♀ — $l-8$ $a-11\frac{1}{2}$ $w-3\frac{5}{8}$ $t-2\frac{5}{8}$

378. Louisiana Tanager ♀ — $l-7\frac{1}{2}$ $a-11\frac{1}{2}$ $w-3\frac{1}{4}$ $t-2\frac{3}{4}$

379. Green Heron ♀ (O) juv. — $l-13\frac{1}{2}$ $a-20$ $w-6$ $t-3$

380. Black Phoebe ♂ (O) — $l-7\frac{1}{2}$ $a-11\frac{1}{4}$ $w-3\frac{1}{8}$ $t-3\frac{1}{4}$

381. Phainopepla ♂ juv. — $l-7\frac{1}{2}$ $a-11\frac{1}{4}$ $w-3\frac{5}{8}$ $t-2$

382. Phainopepla ♀ juv. — $l-7\frac{1}{2}$ $a-11\frac{1}{2}$ $w-3\frac{1}{4}$ $t-2\frac{3}{4}$

Sept. 1, 1895

Clear. Warm.

Sept 2

Clear. Warm. Heard a Killdeer last night.

San Diego, Hooded Merganser & West. Yellowthroat
in the Bay.

Sept. 3.

Went out in the morning. Pleasant.
Went down to the engine room
Pumping Engine this morning. Saw
following birds:— House Finch, Killdeer,
Brewer's Blackbird, Mourning Dove, Phainopepla,
Vermilion Swift, Turkey Vulture, Golden Eagle,
Cal. Quail, Mockingbird, Ariz. Horned Owl,
Clay Sallow, Black Phoebe, Anna's Hummer,
Black-chin Hummer, Ark. Goldfinch, Cal. Bush-tit,
West. Goldfinch, Plain Titmouse, Cal. Shrike,
West. Lark Sparrow, West. Chipping Sparrow,
Wren-tit, Spurred Towhee, Lutescent Warbler,
West. Gnatcatcher, Pileolated Warbler, Hutton's Vireo,
Hermann's Song Sparrow, Louisiana Tanager,
Least Vireo, Cal. Woodpecker, West. Flycatcher,
West. Gnatcatcher, West. Wood Pewee, Rufous Wren,
& West. Yellow Warbler. Birds

— several are not very common.
The Red-wings and orange juncos common.

The Vaux's Swift was flying South
 The Phainopepla are feeding on the pepper.
 The Hummers are on the flowers
 of the Tamarind, and the Anna's is
 quite common. The Warblers are
 very scarce. Saw but one Pileolated
 it was West. yellow, and only about 6 or 8
 later sent. The Towhees are common
 The Gray-headed Orioles and Wood Peckers,
 & Empidonax are getting very scarce.
 383. West. yellowthroat ♂ — l-5 $\frac{1}{2}$ s-7 $\frac{1}{2}$ w-2 $\frac{1}{4}$ t-
 384. Lutescent Warbler ♂ — l-5 s-7 $\frac{1}{2}$ w-2 $\frac{1}{2}$ t-2
 385. West. Wood Pewee ♀ (juv) — l-6 $\frac{1}{2}$ s-10 $\frac{1}{2}$ w-3 $\frac{3}{8}$ t-2
 386. West. yellow Warbler ♀ juv — l-5 $\frac{1}{2}$ s-7 $\frac{1}{2}$ w-2 $\frac{1}{2}$ t-2

Sept. 4, 1895.

Foggy in the morning. P. H. T.
 Went down to the little pond in Lincoln
 on Townsend track. Got a new
 Bird - Bird's Sandpiper. It was

feeding in the sand on the edge of the water, and when it flew it had a tinkling note. Saw two Little Flycatchers among the weeds. Their note was a low "pert." Saw also

Orange Hooded Oriole, Parkman's Wren, etc.

387 Baird's Sandpiper ♂ — $l-7\frac{1}{2}$ — $s-13\frac{1}{2}$ — $w-1\frac{1}{4}$ — $t-2\frac{1}{8}$.

388. Brewer's Blackbird ♂ — $l-9\frac{1}{2}$ — $s-15$ — $w-5$ — $t-1\frac{1}{8}$.

389. Little Flycatcher ♂ — $l-5\frac{3}{4}$ — $s-8\frac{3}{8}$ — $w-2\frac{5}{8}$ — $t-2\frac{1}{4}$.

390. Heermann's Song Sparrow ♀ — $l-5\frac{1}{2}$ — $s-9$ — $w-1\frac{1}{2}$ — $t-1\frac{1}{2}$.

391. Brewer's Blackbird ♀ — $l-8\frac{1}{2}$ — $s-12$ — $w-4$ — $t-3\frac{1}{2}$.

Sept. 5.

Foggy morning. Pleasant. Went out to look for birds. Birds are exceedingly scarce.

following birds, with numbers of each (all more approximate).

Turkey Vulture 10,
West. Gull 1, Mock. Sparrow 2,
Hummingbird 2, Red-wing 4,

Ash. Goldfinch 20, West. Bl. fish 20,
 Cal. Towhee 20, Spurred Towhee 5, House Finch 3,
 Lutescent Warbler 1, Cal. Shrike 3, Mockingbird 10,
 Brewer's Blackbird 5, House Wren 30,
 West. Phoebe 3, Cal. Wren 5, House 1,
 House Wren 1, Louisiana Tanager 6,
 W. Towhee 20, Cal. Phoebe 1, Cal. Towhee 20,
 Lutescent Warbler 3, Spurred Towhee 2,
 West. Red-tail 1, West. Yellowthroat 3:—
 Total 27 species, & 250 birds.

- 392- C. Cal. Towhee ♀ — $2\frac{1}{2}$ in 2. $\frac{1}{2}$ in 2. $\frac{1}{2}$ in 2.
 393- Cal. Towhee ♂ — $6\frac{1}{2}$ in 2. $\frac{1}{2}$ in 2. $\frac{1}{2}$ in 2.
 394. West. Yellowthroat ♂ — $2\frac{1}{2}$ in 2. $\frac{1}{2}$ in 2. $\frac{1}{2}$ in 2.
 395. West. Yellowthroat ♀ — 5. $4\frac{1}{2}$ in 2. $\frac{1}{2}$ in 2.
- Sept 6.

Clear Warm. Saw a large flock
 of sand water birds flying north-west
 Saw one bird flying in same
 direction along the river. They

have a very pretty note.

Sept. 7.

Clear. Pleasant.

Went down

to Long Beach today. Walked the beach
from San Pedro to Long Beach. Saw
one pair of Snowy Plover; a couple of
small flocks of Semipalmated Plover; a
couple of Long-billed Curlew; lots of
West. Gulls; a lot of Cal. Brown Pelicans;
A half dozen Least Terns; Lots of
thousands of West. Sandpipers along the
river on the mud flats; Shot six times
into a flock & picked up 12th birds;
There was a large flock of some large
waders, very shy. There are birds
out on the water. Picked up a
suck. Fulmar (?) on the Beach. Saw
also a couple of large tern which we
didn't recognize; In the bay some

were Belding's Marsh Sparrows, and
 along the beach were Large billed Sparrows.
 On the way down, saw in the marshes
 large flocks of Killdeer, Black-necked Stilts,
 & some kind of sandpiper. Also Great Blue
 Heron, Burrowing Owl, etc. In
 migrating Southward over the sea,
 Cliff Swallows.

Saw immense
 flocks of Blackbirds in the corn-fields.
 Also a good many Large Hawks, probably
 mostly Marsh Hawks.

396. Belding's Marsh Sparrow ♂ — $l. 5\frac{5}{8}$ $w. 1\frac{1}{4}$ $u. 2\frac{3}{4}$ $t. 2$

397. Large billed Marsh Sparrow ♂ — $l. 6$ $w. 9\frac{1}{4}$ $u. 2\frac{7}{8}$ $t. 8$

398. West. Sandpiper ♂ — $l. 6$ $w. 12$ $u. 3\frac{5}{8}$ $t. 2$

399. Snowy Plover ♀ — $l. 7$ $w. 12\frac{1}{2}$ $u. 3\frac{5}{8}$ $t. 7\frac{7}{8}$

400. West. Gull ♀ juv — $l. 22$ $w. 53$ $u. 16$ $t. 4$

401. West. Sandpiper ♀ — $l. 6\frac{3}{4}$ $w. 12\frac{3}{8}$ $u. 4$ $t. 1\frac{5}{8}$

402. West. Gull ♂ juv — $l. 22$ $w. 53$ $u. 16$ $t. 4$

403. West. Sandpiper ♀ — $l. 6\frac{7}{8}$ $w. 11\frac{1}{2}$ $u. 4$ $t. 1\frac{3}{4}$

404. West. Sandpiper ♂ — $l. 6\frac{1}{2}$ $w. 11\frac{1}{2}$ $u. 4$ $t. 1\frac{1}{2}$

Sept 8

Clear. Warm. Saw a couple of Chris. Mock. Doves.

Sept 9.

Pleasant. Foggy in the morning. Went up to Millard's Canyon to the falls this afternoon. There is a great scarcity of birds. Saw the following:—Red-wings, Spurred Towhee, Cal. Towhee, Cal. Jay⁽²⁾, Cal. Thrasher⁽²⁾, Parkman's Wren, Wren-tit, Cal. Bush-tit, West. Flycatcher⁽¹⁾, Lutescent Warbler⁽²⁾, Cal. Shrike, Pileolated Warbler⁽¹⁾, Mourning Dove, West. Gnatcatcher⁽¹⁾, West. Lark Sparrow, Desert Sparrow Hawk⁽¹⁾, Burrowing Owl⁽¹⁾, Mex. Horned Lark, Mockingbird, Ark. Goldfinch, House Finch, Anna's Hummer, Harris's Woodpecker⁽¹⁾, & Red-shafted Flicker⁽¹⁾; a flock of about 20 Bush-tits passed through our yard today, tarrying in the apple-trees & hedges.

405. Harris's Woodpecker ♂—Sept 9. a. m. 5 to 3 p.

Sept. 10

Foggy - the morning Clear & T.

Sept. 11.

Clear - Very Warm. Wind came to force -
up on the Mississippi river. Every bird
in the country seems to be singing,
that is what there is in Mockers, Robins,
House Wrens, Red Goldfinches, Chickadees
& on the Tamarack trees, which are
quite common.

A high storm of clouds are coming
up this afternoon & it is quite sultry.

Sept. 12.

Partially Cloudy all day. Very warm
and sultry. 82° $\frac{1}{2}$ to 8 PM in parlour

Sept. 13.

Cloudy in the morning & a few sprinkles of rain.
Saw one very small bird this morning

Sept. 14

Clear, Warm. Saw on the plain this morning
a Tanager, White-bellied & a Yellow-bellied

Went across the range into the hills, for
3 hours this forenoon. Saw following

birds:— West. Redtail ⁽¹⁾, Des. Hawk ⁽²⁾,
Turkey Vulture, Cal. Jay, Cal. Thrasher,
Cal. Towhee, Spurred Towhee, Cal. Shrike, Mockingbird,
Cal. Bush-tit, Wren-tit, Golden Wren, ⁽³⁾ Plain Titmouse,
West. Yellowthroat, Lutescent Warbler ⁽⁴⁾, Parkman's Wren,
Pileolated Warbler ⁽⁵⁾, Heermann's Song Sparrow, House Finch,
West. Lark Sparrow, West. Wood Pewee ⁽⁶⁾, Black Phoebe,
Ash-throated Flycatcher ⁽⁷⁾, Anna's Hummer,
West. Gnatcatcher, Violet-green Swallow,
Ark. Goldfinch, West. Goldfinch, Cal. Partridge,
Mourning Dove.

Wren-tits are quite common in the brush
also in the hills. Saw an old

Cal. Bush-tit nest in a Celastrus bush.

406. Wren-tit ♀ — $l = \frac{1}{4}$, $a = 7$, $w = 2\frac{3}{4}$, $t = 3\frac{3}{8}$.
407. Wren-tit ♂ — $l = \frac{1}{4}$, $a = 7$, $w = 2\frac{3}{4}$, $t = 3\frac{3}{8}$.
408. Lutescent Warbler ♂ — $l = \frac{7}{8}$, $a = 7\frac{3}{4}$, $w = 2\frac{3}{4}$, $t = 2$.
409. Anna's Hummer ♂ — $l = \frac{1}{2}$, $a = 4\frac{1}{2}$, $w = 1\frac{7}{8}$, $t = 1\frac{1}{2}$.
410. Anna's Hummer ♀ — $l = \frac{1}{2}$, $a = 4\frac{1}{2}$, $w = 1\frac{7}{8}$, $t = 1\frac{1}{2}$.

Sept. 15.

Clear. Warm. Saw another
squad of Cal. Bush-tits cross the
place this morning. Saw the
first Intermediate Sparrow for the
winter, this afternoon on the place.
This is nearly 2 weeks earlier than the
last year.

Sept. 16.

Clear. Warm. Another flock of Bush-tits
on ground today, also the
Intermediate Sparrow & the
this afternoon about 4:00. The birds
seen following below:— R. Lark
West. Goldfinch, Mourning Turkey Vulture
Common Kingbird⁽¹⁾, White-bellied Woodpecker, Hutton's Vireo,
Cal. Woodpecker, West. Lark Sparrow, Anna Hummer,
Black Chucker, Cal Towhee, House Finch, Mockingbird,
Red-bellied Kingfisher, Cal. Thrasher, Pink-bellied Nuthatch,
Song Sparrow, Oregon Vireo, Junco⁽¹⁾, Sp. Chick

Brewer's Blackbird, West. yellow throat, Cal. Lark,
Hammock Song Sparrow, Spurred Towhee.

West. Warbling Vireo⁽¹⁾, West. Meadowlark, Wilson's
Lark Sparrow Hawk, Light green Sunflower.

Here near Winter birds today. I thought

I saw some more Intermediate Sparrows but
I couldn't be positive. The common

hummers are abundant now about the
timber patches.

411. Des. Sparrow Hawk ♂ — $l-11, 2-23\frac{5}{8}, w-8\frac{1}{8}, t-5\frac{1}{2}$

412. West. Warbling Vireo ♂ — $l-5\frac{3}{4}, 2-8\frac{2}{3}, w-7, t-2$

413. West. Yellow throat ♀ — $l-5\frac{1}{4}, 2-6\frac{5}{8}, w-2\frac{1}{8}, t-2\frac{1}{8}$

414. Pileolated Warbler ♂ — $l-5, 2-1\frac{1}{2}, w-2\frac{1}{4}, t-2\frac{1}{2}$

415. Oregon Vesper Sparrow ♂ — $l-6\frac{1}{2}, 2-10\frac{5}{8}, w-3\frac{3}{8}, t-2\frac{3}{4}$

Sept. 17.

Clear. Very cool in the morning. Pleasant.

Sept. 18.

Clear. Cool in morning. What I mistook
on Sept. 6, as some kind of water bird. I

Col. held this morning for about a half
hour. Birds are breeding in places.
Saw Van's Swift & Violets in the
young South east. Saw also Say's Phoebe.
Sept. 21.

Pleasant. Partially cloudy in the morning.
Clouds hang along the Mountains as if
just after a rain. No high stars.
Heard quite a number of Intermediate
Sparrows this morning on the floor.
Another flock of about 50 Pine Jays
went over head this morning North east.
Saw also on the floor, Lutescent Warbler,
Olive-backed Warbler, West. Yellowthroat. Red Shrike,
West. Gnatcatcher, West. Chipping Sparrow.
Heermann's Sparrow, Anna's Hummer, etc.

Sept 22

Clear. Pleasant. Beautiful Weather

Sept 22

Clear. Warm. Windy. A few clouds in the afternoon.
 Went down to pond by Lincoln Ave. Saw
 West. Bluebird, Say's Phoebe, Red-bellied Vireo,
 Intermediate Sparrow, Lincoln's Sparrow,
 W. Yellowthroat, Red-bellied Woodpecker.

- 419- Lutescent Warbler ♂ — $l 5\frac{1}{2}$ $2-7\frac{1}{2}$ $w-2\frac{1}{2}$ $t-2\frac{1}{2}$
 420- Hermitage Song Sparrow ♂ — $l 6$ $2-8$ $w-2\frac{1}{2}$ $t-2\frac{1}{2}$
 421- Lincoln's Sparrow ♂ — $l 5\frac{3}{4}$ $2-8$ $w-2\frac{3}{4}$ $t-2$
 422- Intermediate Sparrow ♀ — $l 6\frac{1}{4}$ $2-9\frac{3}{8}$ $w-3$ $t-2$
 423- Intermediate Sparrow ♂ — $l 6\frac{3}{4}$ $2-9\frac{7}{8}$ $w-3\frac{1}{4}$ $t-3$

Sept. 25.

Clear. Very Warm ^{91°} Sunny. Still in clouds.
 Went down to pond by Lincoln Ave.

a little while this evening.

424. West. Lark Sparrow ♀ — $l = \frac{7}{8}$ $s = 10\frac{1}{4}$ $w = 2\frac{3}{8}$ $t = 2\frac{1}{2}$

425. West. Lark Sparrow ♀ — $l = 6\frac{7}{8}$ $s = 10\frac{1}{2}$ $w = 3$ $t = 2\frac{7}{8}$

Sept. 26.

Clear. Very Warm & dry. 96°, in parlor.

Intermediate Sparrows are very common.

Sept. 27.

Partly cloudy high noon. Light rain toward evening.

Sept. 28.

Sultry. Very warm. Partly cloudy. A small shower in the morning. Two large claps of clouds and hot rain for about 4 minutes. Went down to call about trapping house in arroyo this afternoon. Saw following birds: —

— — — — — Bl. Bush-tit (5 or 6),
West. Gnatcatcher (2), Plain Tit (2), Red-winged Blackbird,
Purple-crowned Night (4), Hutton's Vireo (2),

West. Warbling Vireo (5), Phainopepla (1),
Pileolated Warbler (2), West. Yellowthroat (3),
Townsend's Warbler (1), Black-throated Gray (1),
Audubon's Warbler (4), Lutescent Warbler (5),
West. Flycatcher (1), Black Phoebe, Mountain
Cal. Thrasher, Cal. Jay, Mockingbird, Mountain
Cal. Towhee, Ark. Goldfinch, West. Goldfinch,
Intermediate Sparrow, West. Lark Sparrow,
West. Chipping Sparrow, Tussock Wren,
Red-shafted Flicker, 32.

and I remember very well. The birds
were for the most part scarce in that it
was very hard to see them among
the swaying foliage. The Ruby-crowned
Kinglet and Audubon's Warbler, we
at least saw like winter, although
the temperature at Los Angeles 94°
The migration was much heavier
than the last fall.

Oct. 1, 1881.

12:00 Very Warm. 76° in shade. Went
down to range by jumping fence this morning
from 5 till 10 o'clock. Birds were very
abundant. The early morning was by
far the best time for watching & shooting birds.
Large numbers of Audubon's Warblers as
usual. Sighted also a Wren Bird,
Black & White Warbler. It was feeding about
on the smaller branches of a tall willow.

Saw also Sharp-shin Hawk, Say's Phoebe,
Cassin's Vireo, West. Warbling Vireo, Wren-tit,
Ruby-crowned Kinglet, Pileolated Warbler, Lutescent Warbler,
West. Flycatcher, West. Yellowthroat, Bay Breasted Warbler,
West. Gnatcatcher, Jackson's Wren etc.

434. Audubon's Warbler ♀ — $l-5\frac{3}{4}$ $a-9\frac{1}{4}$ $w-3\frac{1}{8}$ $t-2\frac{1}{4}$
435. Hermann's Song Sparrow ♂ — $l-6\frac{1}{4}$ $a-8$ $w-2\frac{1}{2}$ $t-3\frac{1}{2}$
436. Cassin's Vireo ♀ — $l-5\frac{1}{2}$ $a-9$ $w-2\frac{1}{4}$ $t-2\frac{1}{8}$
437. Ruby-crown Kinglet ♀ — $l-4\frac{1}{2}$ $a-7$ $w-2\frac{3}{8}$ $t-1\frac{3}{4}$
438. West. Warbling Vireo ♂ — $l-5\frac{3}{4}$ $a-8\frac{1}{2}$ $w-2\frac{5}{8}$ $t-2$
439. Pileolated Warbler ♀ — $l-4\frac{1}{4}$ $a-7\frac{1}{4}$ $w-2\frac{3}{8}$ $t-2$

Oct. 3.

High fog nearly all day. Went
down to pond in Lindholm, a few
minutes this evening. Saw
no animal life.

440. Heron's Song Sparrow ♂ — $12 \frac{1}{2}$ x $8 \frac{1}{2}$ x $2 \frac{5}{8}$
441. Audubon's Warbler ♀ — $5 \frac{1}{2}$ x $8 \frac{5}{8}$ x $2 \frac{3}{8}$ x $2 \frac{3}{8}$

Oct. 4.

Partially Cloudy - High fog. Saw
Turkey crowed Night on the plain today.

Oct. 5.

Clear. Pleasant. Went up to Robin Wash
a while this afternoon. Birds were
exceedingly abundant. Saw following:
Cal. Jay, Cal. Thrasher, Cal. Towhee, Spurred Towhee,
Intermediate Sparrow, West. Red Sparrow, Mountain
Lark, Bush-tit, Rufous-backed Wren, Vigors Wren,
West. Gnatcatcher, Audubon's Warbler, Cal. Shrike,
Mockingbird, House Finch, White-bellied
Woodpecker, Red-shafted Flicker.

Sharp-shinned Hawk R, Cal. Partridge, Mourning Dove
Mex. Horned Lark, etc.

- 442 Mourning Dove ♂ — $P-12\frac{1}{4}$ $O-1\frac{5}{8}$ $W-6$ $T-4$
443 Mourning Dove ♀ — $P-11\frac{5}{8}$ $O-1\frac{1}{2}$ $W-6$ $T-4$
444 Cal. Towhee ♂ — $P-8\frac{3}{4}$ $O-1\frac{1}{4}$ $W-5\frac{5}{8}$ $T-4$
445 Cassin's Kingbird ♂ — $P-9\frac{1}{2}$ $O-1\frac{1}{2}$ $W-5\frac{1}{2}$ $T-4$
446 Say's Phoebe ♀ — $P-7\frac{1}{2}$ $O-1\frac{1}{2}$ $W-4\frac{1}{4}$ $T-3$

Oct. 6.

Clear. Warm. A Dusky Poor-will
was caught by a cat down to Randall's
almost in the middle of town last night.

Oct. 7 + 8.

Foggy in the morning. Hazy.

Oct. 9.

Foggy in the morning. Went down
to arrange by pumping house, early this
morning. Saw large numbers
of Red-shafted Flickers & Audubon's Warblers
also Ruby-crowned Kinglets. Went to,

Cal. Bush Tit, Vigors Wren, West. Yellowthroat,
Lutescent Warbler, Pileolated Warbler.

Arnold shot a Red-breasted Sapsucker
in a pepper-tree on Orange Grove, Ave.

447. Hermann's Song Sparrow ♀ — $l-5\frac{3}{4}$ · $a-7\frac{5}{8}$ · $w-2\frac{3}{8}$ · $t-2\frac{7}{8}$

448. Ruby-crowned Kinglet ♀ — $l-4\frac{3}{4}$ · $a-6\frac{1}{2}$ · $w-2\frac{1}{4}$ · $t-1\frac{3}{4}$

Oct. 10

Foggy in the morning

Oct. 11.

Clear. Pleasant. Mr. Doydall went
to Long Beach, Wyo., and brought me
the following birds.

449. Red-breasted Sapsucker ♀ — $l-8\frac{3}{8}$ · $a-11$ · $w-5\frac{1}{8}$ · $t-2\frac{3}{8}$

450. Snowy Plover ♂ — $l-6\frac{1}{2}$ · $a-13\frac{1}{2}$ · $w-4\frac{1}{4}$ · $t-1\frac{7}{8}$

451. Belding's M. Sparrow ♂ — $l-5\frac{1}{2}$ · $a-8\frac{3}{4}$ · $w-2\frac{3}{4}$ · $t-2$

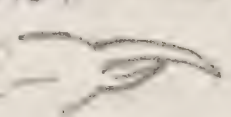
452. " " ♂ — $l-5\frac{1}{2}$ · $a-8\frac{3}{4}$ · $w-2\frac{3}{4}$ · $t-1\frac{3}{8}$

453. " " ♂ — $l-5\frac{3}{8}$ · $a-8\frac{3}{4}$ · $w-2\frac{3}{4}$ · $t-2$

454. West. Sandpiper ♂ — $l-6\frac{1}{2}$ · $a-11\frac{5}{8}$ · $w-5\frac{3}{8}$ · $t-1\frac{5}{8}$

455. " " ♂ — $l-6\frac{1}{2}$ · $a-11\frac{5}{8}$ · $w-5\frac{3}{8}$ · $t-1\frac{5}{8}$

Oct. 12, 1895.

Clear. Warm. Went up to Rubio
Wash. this afternoon. Saw —
Sharp-shinned & Am. Sparrow Hawk; Wren-tit;
Large numbers of Audubon's Warblers every-
where, especially in a fig orchard; Quite
a number of Mockingbirds in the brush
feeding on "coffee berries"; Lots of
Intermediate & West. Lark Sparrows;
Red-shafted Flickers; a few Mex. Horned Larks;
Cal. Thrasher; Sparred Towhee, only a very few
of Towhee — one I shot was peculiarly
deformed in the bill — ; House Finch
Quite large numbers of Parkinson's Wrens;
Wrens & West. Gnatcatchers in brush;
Mourning Dove in our flower patch;
West. C. L. Goldfinches; West. Meadowlark;
Chico Vesper Sparrow; Cal. Partridge, only 2
seen. Birds in general are
very abundant.

456. Intermediate Sparrow — $l-6\frac{1}{2}$ $s-9\frac{1}{4}$ $w-3\frac{1}{2}$ $t-3$
 457. Cal. Towhee ♀ — $l-8\frac{1}{2}$ $s-10\frac{3}{4}$ $w-3\frac{1}{8}$ $t-4$
 458. Wren-tit ♂ — $l-6\frac{3}{8}$ $s-7\frac{1}{8}$ $w-2\frac{3}{8}$ $t-2\frac{3}{8}$
 459. Vigor's Wren ♀ — $l-5\frac{1}{4}$ $s-6\frac{1}{2}$ $w-2\frac{1}{8}$ $t-2\frac{1}{8}$
 460. Cal. Towhee ♀ — $l-8\frac{3}{4}$ $s-11\frac{1}{4}$ $w-3\frac{1}{4}$ $t-4\frac{1}{4}$
 461. Mockingbird ♀ — $l-9\frac{1}{4}$ $s-12\frac{3}{4}$ $w-4$ $t-4\frac{1}{4}$
 462. House Finch ♂ — $l-6$ $s-9\frac{3}{4}$ $w-3\frac{1}{8}$ $t-2\frac{3}{8}$
 463. House Finch ♀ — $l-6\frac{1}{4}$ $s-9\frac{1}{2}$ $w-3\frac{1}{8}$ $t-2\frac{3}{8}$
 464. House Finch ♀ — $l-6$ $s-9\frac{1}{4}$ $w-3$ $t-2\frac{1}{4}$

Oct. 13.

Clear Bitter Water. Read a short book
 from Long Beach from Hermann.

465. Marsh Hawk R ♀ — $l-21$ $s-48$ $w-15$ $t-10\frac{1}{2}$

Oct. 14.

Partially Cloudy. High Strata. High fog
 came up in the evening.

Oct. 15.

Partially Cloudy. Cool. A very heavy
 mist during a rain last night.
 East Wind.

Oct. 16.

Partially Cloudy. High fog. This morning, I saw a female Ark. Goldfinch being fed by a male. Bth were in high plumage, and the female was singing the usual spring nesting twitter. So I watched her, and saw her alight on a nest, 20 ft. up, in a cypress, in our yard. I climbed up, and found a nest made compactly of moss, containing one fresh egg. Is it that late?

Oct. 17.

Clear. Breeze. High thro' of clouds at night.

Oct. 18.

Partially clear. Rained hard for several hours in the night. Some fine &

thunder & showers on the place this morning. Rich. from Long Beach, got on the 15th -

4667 Wilson's ♂ — 1-10, 2-12, 10-12, 7-4½

4671 Pintail ♀ — 1-10, 2-12, 10-12, 7-4½

Oct. 19.

With the exception of a 2 hours shower in morning, partially clear. Saw more juncos.

Oct. 20.

Partially clear. Climbed up to the Goldfish nest this morning. It contained only 3 eggs, so I left it. The old birds act very suspicious just as in the spring. Moved into the new house today.

Oct. 21.

Partially Cloudy. Took the set of Goldfish this morning 530 $\frac{16}{3}$. Set-348. Nest was on north branch of Cypress, 20 ft. up. The incubation was well begun.

Oct. 22

Cloudy all day. Birds are quite common now.

Oct. 23

Clear Warm. Saw many juncos, jays, etc.

Oct. 24

Very Pleasant. Went down to the pond.

Lincoln Ave. a half hour this
evening. Saw following birds—
Red-winged Black, Intermediate Sparrow,
Harriman's Song Sparrow, M. & Horned Lark,
Mourning Dove, West. Lark Sparrow, Black Phoebe,
West. Yellow Warbler, Downy Woodpecker, Hairy Woodpecker,
Red. Bl. Gnatcatcher, Least Hermit Thrush, etc.
468. H. L. Lark Sparrow & juv. — 4-7
469. Audubon Heron 50 juv. — $5\frac{5}{8}$ - $9\frac{1}{4}$ - $2\frac{3}{4}$ - $2\frac{1}{4}$

Oct. 25.

Clear. Slight S. to N. breeze this morning.

Oct. 26.

Foggy in morning. Part of the morning a heavy rain and
continued till

Oct. 27.

Clear. Pleasant. Got two new birds,
West. Winter Wren in pile of drift-wood, and
Thick-billed Sparrow skulking under cold
raspberry thicket. Saw birds

these the following birds — Audubon's
 Warbler, Dwarf Hermit Thrush, Audubon's Vireo,
 Canon Wren, Bullock's Wren, Rock Wren,
 Vigors Wren, Mockingbird, Cal. Thrasher,
 Anna's Hummer, Desert Sparrow Hawk,
 Cooper's Hawk, Sharp-shinned Hawk,
 Harris's Woodpecker, Nuttall's Woodpecker,
 Red-shafted Flicker, West. Horned Lark,
 Mourning Dove, Townsend's Sparrow, West.
 Cal. Gnatcatcher, House Finch, Ark. Goldfinch,
 Cal. Towhee, Spurred Towhee, Townsend's Junco,
 West. Lark Sparrow, Intermediate Sparrow,
Golden-crowned Sparrow, West. Gnatcatcher,
 Ruby-crowned Kinglet, etc.

- 470- Thick-billed Sparrow ♂ — l- $7\frac{3}{4}$ a- $10\frac{1}{4}$ w- $8\frac{1}{4}$ t- $3\frac{1}{2}$
 471- West. Winter Wren ♂ — l-4 a- $5\frac{1}{2}$ w- $1\frac{7}{8}$ t- $1\frac{1}{4}$
 472- Townsend's Sparrow ♀ (J) — l- $7\frac{5}{8}$ a- $10\frac{3}{4}$ w- $3\frac{1}{2}$ t- $5\frac{1}{4}$
 473- Canon Wren ♀ — l- $5\frac{1}{2}$ a-7 w- $2\frac{1}{2}$ t- $1\frac{1}{2}$
 474- Audubon's Vireo ♀ (J) — l-5 a- $7\frac{5}{8}$ w- $3\frac{1}{2}$ t-3
 475- Dwarf Hermit Thrush ♂ — l-7 a-11 w- $7\frac{1}{2}$ t- $2\frac{1}{2}$
 476- Harris's Woodpecker ♀ — l- $6\frac{1}{2}$ a-11 w-5 t- $1\frac{1}{2}$

Oct. 28.

Foggy in morning. Pleasant.

Oct. 29.

Foggy in morning. Red. Yellowthroat in place.

Oct. 30.

Foggy in morning. Saw Am. Pipit down to
Throop today. Also a Golden Eagle fly
near Cove overhead. What I have
been calling Eagles (with white patches
under wings) have all probably been
Cal. Condors.

Dugget's nest today

477. Cal. Towhee ♂ — $l-8\frac{1}{2}$ $s-11\frac{1}{2}$ $w-3\frac{5}{8}$ $t-3\frac{7}{8}$

478. Audubon's Warbler ♀ — $l-5\frac{1}{2}$ $s-9\frac{1}{4}$ $w-3\frac{1}{8}$ $t-2\frac{1}{4}$

Oct. 31.

Clear Morning. Pleasant. Saw

Horned Lark flying South East at noon.

Noon.

Clear Pleasant. Dugget's nest in

Boxed over long Beach today, and I
brought me the following birds:

479. Red wing Black bird ♂ — $l-9\frac{3}{8} \cdot 0-15\frac{1}{4} \cdot 4-12\frac{1}{2} \cdot 1\frac{1}{2}$
 480. West. Meadow lark ♂ — $l-10\frac{1}{4} \cdot 0-16\frac{1}{2} \cdot 4-5\frac{1}{2} \cdot 3$
 481. Red-wing Black bird ♀ — $l-7\frac{3}{4} \cdot 0-13 \cdot 4-9\frac{1}{2} \cdot 2\frac{1}{8}$
 482. " " ♀ — $l-8\frac{3}{8} \cdot 0-13\frac{1}{2} \cdot 4-11\frac{1}{2} \cdot 3\frac{1}{8}$
 483. " " ♀ — $l-8 \cdot 0-13\frac{3}{8} \cdot 4-11\frac{1}{4} \cdot 3$
 484. Tow. Loat ♀ — $l-14 \cdot 0-25 \cdot 4-7\frac{1}{4} \cdot 2$

The testes of the Meadowlark
 were lightly developed, like O.

Nov. 2.

Clear. Pleasant. Went up to Ruben
 Wash for a while this afternoon
 Saw following birds:— West. Ch. Swift,
 West. Gnatcatcher, Vigor's Wren, Ind. Wren,
 Cal. Phoebe, Mockingbird, Cal. Shrike,
 Lutescent Warbler, Audubon's Warbler,
 Cal. Jay, Querc. Towhee, Cal. Towhee, Cal. Goldfinch,
 House Finch, Bay-winged Owl, Sharp-shin Hawk,
 Red-shafted Flicker, Intermediate Sparrow,
 West. Meadowlark, West. San R. Sparrow.

Worm-eating Warbler, Blue-headed Vireo, etc.

Birds are very common now,
especially the Indigo Bunco Warbler,

the striped Thrasher, the Indigo Sparrow
and the Wren. A very peculiar

fact is that some of the Green-backed
are becoming considerably, and
beginning to enter caves.

485 Cal. Jay ♀ — l. $10\frac{3}{4}$ a. $14\frac{1}{2}$ w. $4\frac{1}{2}$ t. $4\frac{7}{8}$

486 Wren ♀ — l. $6\frac{3}{8}$ a. 7. w. $2\frac{1}{4}$ t. $3\frac{1}{4}$

487 Indigo Wren ♂ — l. $5\frac{1}{8}$ a. $6\frac{3}{4}$ w. 2. t. $1\frac{7}{8}$

488 Wren ♂ — l. $6\frac{1}{2}$ a. $7\frac{1}{2}$ w. $2\frac{3}{8}$ t. $3\frac{3}{8}$

489 Indigo Wren ♂ — l. $5\frac{1}{8}$ a. $6\frac{3}{4}$ w. 2. t. 2.

490 Indigo Wren ♂ — l. $5\frac{1}{2}$ a. 9. w. $2\frac{5}{8}$ t. $2\frac{3}{8}$

491 Indigo Wren ♂ — l. $5\frac{1}{2}$ a. $9\frac{1}{4}$ w. 3. t. $2\frac{3}{8}$

492 Indigo Wren ♀ — l. $5\frac{3}{4}$ a. $6\frac{5}{8}$ w. 2. t. $2\frac{1}{2}$

Nov 3.

Cloudy, but mostly all the forenoon.

A band of birds in the place.

...

Nov. 4.

Saw Am. Pipit down to things.

Clear, Cold, Morning. Snow on the Mts.

Partially Cloudy in afternoon. Rain 30 in.

Nov. 5.

Clear and quite cool. Went down to stubble field on Lincoln Ave. for a few minutes this evening. Saw
Thurber's juncos, Burrowing Owl, etc.
The Kingbirds beginning to sing now.

493. Max. Horned Lark ♂ — $17.2-13.0-4\frac{1}{4} \pm 2\frac{1}{2}$

494. Max. Horned Lark ♂ — $16\frac{1}{2}-12.0-3\frac{1}{2} \pm 2\frac{1}{2}$

Nov. 6.

Clear. Pleasant. Saw more West. Chats.
A large flock seemed to fly right down
out of the city. They probably came
directly down from the Mts.

Nov. 7.

Clear. Pleasant. The Kingbirds
sing quite generally now.

Nov. 8.

Doggett brought me today from Binky,
near Long Beach:—

495. Duffle-head ♀ — $l-14\frac{3}{4}$ s-22 w-l 7 $\frac{3}{4}$
496. Marsh Hawk ♀ — $l-20\frac{5}{8}$ s-45 $\frac{1}{2}$ w-15 T-10.

Nov. 9.

Clear Pleasant. Went up to Willard
Canon today. Saw following birds:—
West. Bluebird, Dwarf Hermit Thrush, West.
Gnatcatcher, Ruby-crowned Kinglet, Cal. Bush-tit,
Wren-tit, Plain Titmouse, West. Winter Wren,
Packman's Wren, Canon Wren, Vigors Wren,
Cal. Thrasher, Mockingbird, Audubon's Warbler,
Lutescent Warbler, Hutton's Vireo, Cal. Shrike,

Cal. Towhee, Spurred Towhee, Herman's Song Sparrow,
Thurber's Junco, Golden-crowned Sparrow,
Intermediate Sparrow, West. Lark Sparrow,
Ark. Goldfinch, House Finch, Cal. Purple Finch,
West. Meadowlark, Cal. Jay, West. Horned Lark,
Audubon's Wrenwren, Red-shafted Flicker,
Harris's Woodpecker, Desert Sparrowhawk,
West. Red-tail, Sharp-shinned Hawk,
Mourning Dove, Cal. Partridge: — Stoppage
Birds are tolerably abundant now. The
Audubon's Wrenwrens simply swarm everywhere.
I only went as far as the falls, so I might
have seen more woodpeckers etc. among the
firs. The winterhouse was in among
drift wood & boulders in the narrowest
part of the canon. The Redtail was
sitting on a branch of alder over the cabin.
It had just had a very full meal,
and was apparently sluggish.
The

497. West. Red Tail ♀ — $L 22\frac{1}{4}$ $D 55$ $W 17$ $T 10$
 498. Spurred Towhee ♀ — $L 27$ $D 10\frac{1}{2}$ $W 27$ $T 2\frac{1}{2}$
 499. West. Winter Wren ♀ — $L 4$ $D 5\frac{1}{2}$ $W 1\frac{1}{2}$ $T 1\frac{1}{4}$
 500. Lutescent Warbler ♀ — $L 8$ $D 7\frac{1}{4}$ $W 2\frac{1}{4}$ $T 1\frac{3}{8}$
 501. Wren Tit ♀ — $L 6\frac{5}{8}$ $D 7\frac{1}{2}$ $W 2\frac{1}{2}$ $T 3\frac{1}{2}$
 502. Harmer's Woodpecker ♂ — $L 9\frac{1}{4}$ $D 13\frac{1}{4}$ $W 5$ $T 2\frac{1}{4}$
 503. Harmer's Woodpecker ♀ — $L 9\frac{1}{4}$ $D 13$ $W 5$ $T 3\frac{1}{2}$
 504. Goldcrown Sparrow ♀ — $L 6\frac{3}{4}$ $D 9\frac{1}{2}$ $W 3$ $T 2\frac{7}{8}$
 505. Intermediate Sparrow ♀ — $L 6\frac{1}{2}$ $D 9\frac{1}{2}$ $W 3$ $T 3$

Nov. 10.

Clear, Pleasant.

Nov. 11.

Cloudy all day. Rained some in the aft.

Nov. 12.

Clear, Cool. Went down to field in

evening, a few minutes this morning.

506. Mex. Horned Lark ♂ — $L 7$ $D 4\frac{1}{2}$ $W 1\frac{1}{2}$ $T 2\frac{3}{4}$

Nov. 13.

Clear, Cool.

Nov. 14.

Nov. 15

Nov. 16

W. 4 of Miller's

NEW BIRD—

Grackles Nuthatches. Saw 4 or 5 running

down a steep slope, looking for

food. They were quite tame

and did not seem to be

afraid of me. They were

very tame and very

friendly. — We were

very lucky to get a

few of them. —

Nov. 17. —

Nov. 18. —

Nov. 19. —

Nov. 20. —

Nov. 21. —

Spurred Towhee, Townsend's Sparrow
 Brewer's Song Sparrow, Thicket Sparrow
 Golden-crown Sparrow, Intermediate Sparrow
 West. Towhee, West. Gnatcatcher, West. Gnatcatcher
 House Finch, Red-eyed Vireo, West. Gnatcatcher
 Green-backed Towhee, Red-eyed Vireo, West. Gnatcatcher
 Red-eyed Vireo, West. Gnatcatcher, West. Gnatcatcher
 Black Phoebe, Say's Phoebe, & House Wren
 These weren't a single woodpecker!

- 508 Townsend Sparrow ♀ — $4\frac{7}{8}$ 2-10 $2\frac{1}{4}$ $1\frac{3}{4}$
 509 Canada Gnatcatcher ♂ — $4\frac{3}{4}$ 2-8 $2\frac{3}{8}$ $1\frac{5}{8}$
 510 Canada Gnatcatcher ♀ — $4\frac{1}{2}$ 2-8 $2\frac{1}{8}$ $1\frac{1}{2}$
 511 West. Winter Wren ♀ — $4\frac{1}{2}$ 2-5 $2\frac{1}{4}$ $1\frac{1}{4}$
 512 West. Winter Wren ♂ — $4\frac{1}{2}$ 2-5 $2\frac{1}{4}$ $1\frac{1}{4}$
 513 Ruby-cr. Kinglet ♂ — $4\frac{5}{8}$ 2-7 $2\frac{1}{8}$ $1\frac{1}{8}$
 514 Vigors Wren ♂ — $5\frac{1}{4}$ 2-6 $2\frac{1}{4}$ $1\frac{1}{4}$
 515 Wren-tit ♂ — $6\frac{5}{8}$ 2-8 $2\frac{3}{8}$ $1\frac{1}{8}$
 516 Black Phoebe ♀ — $7\frac{1}{2}$ 2-11 $2\frac{1}{2}$ $1\frac{1}{2}$
 517 Wren-tit ♀ — $6\frac{1}{4}$ 2-7 $2\frac{1}{4}$ $1\frac{1}{4}$

Nov. 17, 1895

Clear. Mild to Warm. Saw West Gull-throat
& White-throat & Red-shouldered Hawk in the sky

Nov. 18.

Clear. Very Warm & Dry.

Nov. 19.

Clear. Very Warm. Nothing in the night.

Nov. 20.

Clear. Very Warm. Went up to field west of
Van R. Hill this morning. Saw large flocks
of West Gull-throat & Mourning Dove.

518. West. Gull-throat Sparrow ♀. $10 \frac{1}{2}$ - $11 \frac{1}{2}$ - $2 \frac{1}{2}$ - $1 \frac{1}{2}$ - $7 \frac{1}{2}$

519. West. Gull-throat Sparrow ♂ - L.G. 29 - 10 - 2 - $1 \frac{1}{2}$

Nov. 21.

Ice & Snow - Very cool. Clouded up in
afternoon with southwest wind.

Saw West Gull-throat today.

Where are the others this year?

Nov. 22.

Partly Cloudy. Cold. Ice - the night cold.

Nov 23.

Clear, very cool. Slight fall of snow on Mts.
to halfway down. Went up
Engel Park Camp to the highest point at the house
in afternoon. The cold snap seems to
have started a migration. Saw passing
east over the hills about 40 White-throated
Swifts, about also 6 White Eagles, Cooper's
Hawk, Sharp-shinned Hawks and some other
kind of Hawk with pointed wings and
white breast; also an Osprey, and several
Barn Swallows. Saw also on the
road near — Say's Phoebe, Black Phoebe,
Blue Bird, White-throated Sparrow, White
Throat Sparrow, Song Sparrow, Junco,
Vigors' Wren, Cal. Towhee, Gilded Towhee,
Red Goldfinch, Black Goldfinch, Cal. Shrike,
Thrush, Junco, Ruby-crowned Kinglet, Doves, House
Sparrows, etc. Birds are quite scarce.

520. West. Invertebrate $19\frac{3}{8} \times 16\frac{1}{2} \times 2$ to $2\frac{1}{4}$.

21. Say's Phoebe 5 — Hg. $a \frac{13}{4}$ $u - 4 \frac{2}{3}$ $t. 3 \frac{1}{2}$

Nov 24 1875.

Clear. Very cool slight frost. Also a little ice.

Nov. 25.

Clear. Cool. Slight Frost.

Nov. 26

Clear. Cool. Frost. Saw West. Bluebird & Kingbird.

Nov. 27.

Slightly happy manner.

Monte Vista

76.29

Cal. Towhee, West. Gnatcatcher, House Finch, House Wren,
San Fernando Wren, Rock Wren, West. Gnatcatcher,
Black-bellied Gnatcatcher, Red-eyed Vireo, House Wren,
Audubon's Warbler, Cal. Towhee, Cal. Roadrunner,
Cal. Partridge, Palmd Wren, Bell's Sparrow,
West. Gnatcatcher, House Finch, House Wren,
Cal. Towhee, West. Gnatcatcher, House Finch, House Wren,
Say's Phoebe, Red-fl. Wren.

Dec 1

Clear day. Went home today. Saw in the
San Fernando wash, more Black-bellied Gnatcatchers,
Rock Wren, 2 San Fern Wrens, lots of House Wrens and
a flowering shrub. Saw no Cactus Wrens, but
lots of their nests. Saw a couple of Golden Eagles
and some large Hawks. Saw first Mountain
Blackbird of the winter at Glendale in a
black locust; also West. Gnatcatcher, Cooper's Kingbird.
Saw numbers of West. Gnatcatcher, Oregon Vireo,
West. Gnatcatcher, House Wren, House Finch
in the fields. Also San Fernando Towhee.

522. Western Junco ♂ — $l-7\frac{1}{2}$ $s-10\frac{1}{2}$ $w-2\frac{1}{2}$ $t-3\frac{1}{2}$ *
523. Rock Wren ♀ — $l-7\frac{1}{2}$ $s-8\frac{1}{2}$ $w-2\frac{1}{2}$ $t-2$.
524. West. Snow-bird ♀ — $l-5\frac{1}{2}$ $s-8\frac{3}{4}$ $w-2\frac{1}{4}$ $t-1\frac{3}{4}$.
525. Black-tailed Gnatcatcher ♂ — $l-4\frac{5}{8}$ $s-6\frac{1}{2}$ $w-1\frac{1}{2}$ $t-2$.
526. Black-tailed Gnatcatcher ♀ — $l-4\frac{1}{2}$ $s-6$ $w-1\frac{1}{2}$ $t-2$.
527. Road-runner ♂ — $l-23\frac{1}{2}$ $s-21\frac{1}{2}$ $w-7$ $t-12$.
528. Red-shafted Flicker ♀ — $l-12\frac{7}{8}$ $s-18\frac{5}{8}$ $w-6\frac{1}{2}$ $t-5$.
529. Red-shafted Flicker ♂ — $l-12\frac{1}{2}$ $s-21\frac{1}{2}$ $w-6\frac{3}{4}$ $t-4\frac{5}{8}$.
530. West. Meadowlark ♂ — $l-9\frac{7}{8}$ $s-16$ $w-5$ $t-3\frac{1}{2}$.
531. Black-tailed Gnatcatcher ♂ — $l-4\frac{3}{4}$ $s-6\frac{1}{2}$ $w-1\frac{1}{2}$ $t-2\frac{1}{4}$.
532. Rock Wren ♂ — $l-6$ $s-8\frac{7}{8}$ $w-2\frac{3}{4}$ $t-2\frac{1}{2}$.
533. Rock Wren ♀ — $l-5\frac{5}{8}$ $s-8\frac{3}{4}$ $w-2\frac{13}{16}$ $t-2\frac{1}{16}$.
534. Black-tailed Gnatcatcher ♀ — $l-4\frac{7}{8}$ $s-5\frac{1}{4}$ $w-1\frac{1}{2}$ $t-2$.
535. Rock Wren ♀ — $l-5\frac{5}{8}$ $s-8\frac{1}{2}$ $w-2\frac{3}{4}$ $t-2$.
536. Rock Wren ♀ — $l-5\frac{3}{8}$ $s-8\frac{1}{4}$ $w-2\frac{3}{4}$ $t-2\frac{1}{4}$.
537. Mountain Bluebird ♂ — $l-7\frac{1}{4}$ $s-13\frac{1}{2}$ $w-4\frac{1}{2}$ $t-2\frac{1}{2}$.
538. West. Bluebird ♂ — $l-6\frac{7}{8}$ $s-12\frac{5}{8}$ $w-4\frac{1}{2}$ $t-2\frac{1}{2}$.
539. West. Bluebird ♂ — $l-7$ $s-12\frac{1}{4}$ $w-4\frac{1}{2}$ $t-2\frac{1}{2}$.
540. Anna's Hummer ♀ — $l-3\frac{1}{2}$ $s-4\frac{1}{4}$ $w-2$ $t-1\frac{1}{4}$.

Dec. 2, 1895.

Clear Pleasant. Saw first West. Robin
of the winter, in the place, this morning. They
were very noisy, and were on the tops of the
evergreen trees. They are very late.

Dec. 3

Thick Haze all day. Cool

Dec. 4, 5, 6.

Clear Pleasant.

Dec. 7.

Clear Pleasant. Went up Willard's Cove
nearly to cabin: the birds are very scarce.
Saw following birds on Cove— Cal Towhee,
Golden-crown Sparrow, West. Goldfinch, Pallid Wren-tit,
Cal Creeper, Ruby-crown Kinglet, Cal. Jay,
Russet-backed Thrasher, Audubon's Warbler,
Herring-gull Sparrow, & Vigors Wren.
Saw in fields common Lincoln:—
West. Meadowlark, West. Wooded Gnatcatcher, and
8 or 10 Song Sparrows. Also up

Below south of town: West. Chipping Sparrow,
West. Gnatcatcher, West. Lark Sparrow, Mockingbird,
Song Sparrow, Cal. Shrike, Mourning Dove, etc.

541. Cal. Creeper ♂ — $L\ 5\frac{1}{2}$ $S\ 7\frac{5}{8}$ $W\ 2\frac{1}{2}$ $T\ 2\frac{5}{8}$
542. Ruby-crown Kinglet ♂ — $L\ 4\frac{3}{8}$ $S\ 7\frac{1}{4}$ $W\ 2\frac{3}{8}$ $T\ 1\frac{7}{8}$
543. Hutton's Vireo ♀ — $L\ 4\frac{7}{8}$ $S\ 7\frac{5}{8}$ $W\ 2\frac{1}{8}$ $T\ 2$
544. West. Meadowlark ♀ — $L\ 9\frac{3}{4}$ $S\ 15$ $W\ 4\frac{3}{4}$ $T\ 2\frac{3}{4}$
545. Mex. Horned Lark ♂ — $L\ 7$ $S\ 12\frac{1}{2}$ $W\ 4$ $T\ 2\frac{3}{4}$
546. West. Savanna Sparrow ♂ — $L\ 5\frac{7}{8}$ $S\ 7\frac{1}{2}$ $W\ 3\frac{1}{2}$ $T\ 2\frac{1}{4}$
547. Mex. Horned Lark ♀ — $L\ 6\frac{1}{2}$ $S\ 11\frac{5}{8}$ $W\ 3\frac{1}{2}$ $T\ 2\frac{1}{2}$
548. West. Savanna Sparrow ♀ — $L\ 5\frac{1}{8}$ $S\ 9\frac{3}{4}$ $W\ 3\frac{1}{4}$ $T\ 2$
549. Intermediate Sparrow ♂ — $L\ 7\frac{1}{2}$ $S\ 10$ $W\ 3\frac{1}{4}$ $T\ 3$

Dec. 8. 9. 10.

Clear. Pleasant.

Dec. 11.

Clear. Went up to fields and pond on Lincoln
Ave. this morning, early. Saw nothing
noteworthy, except 3 or 4 West. Vireos in
the grass.

- 550 — Parkman's Wren — ♂ — $l-5\frac{3}{8}$ s- $6\frac{1}{4}$ u- $2\frac{1}{8}$ T-2
- 551 — Thumber's Junco — ♂ — $l-6\frac{1}{4}$ s- $9\frac{1}{4}$ u-3 T- $2\frac{5}{8}$
- 552 — West. Vesper Sparrow ♀ — $l-6\frac{3}{8}$ s- $10\frac{1}{2}$ u- $3\frac{1}{4}$ T-23
- 553 — West. Savanna Sparrow ♀ — $l-5\frac{3}{4}$ s-9 u- $2\frac{7}{8}$ T- $2\frac{1}{8}$
- 554 — West. Savanna Sparrow ♀ — $l-5\frac{5}{8}$ s-9 u- $2\frac{1}{8}$ T-24
- 559 — Intermediate Sparrow ♀ — $l-7\frac{1}{8}$ s-16 u- $2\frac{3}{16}$ T-3

Dec. 13.

Clear. Pleasant.

Dec. 13.

Slightly Cloudy. Went down to Long Beach today.
Saw Cal. Brown Pelican. West. Gull, some large
tern, Sooty Tern, and the kind of sand piper
along the beach; and in the marsh, Tule Wren,
Am. Bittern, Belding's Marsh Sparrow, Say's-billed
Sparrow, & West. Meadowlark. Shot a single
West. Savanna Sparrow among the sand dunes.
Saw also large flocks of ducks flying from
inland out to sea, where they would fight
the probably just inland at night, and go out
to sea during the day.

* in white plumage.

- 553— Surf Scoter ♂ juv. — $h-19$. $a-22\frac{3}{4}$. $w-9\frac{1}{2}$. $t-2\frac{3}{4}$.
- 556— West. Gull ♀ * — $h-23$. $a-53$. $w-15\frac{3}{4}$. $t-6\frac{1}{2}$.
- 557— Tule Wren ♀ — $h-5$. $a-6\frac{1}{4}$. $w-2$. $t-1\frac{7}{8}$.
- 558— Large billed Sparrow ♀ — $h-6\frac{1}{4}$. $a-9\frac{3}{8}$. $w-2\frac{5}{8}$. $t-2\frac{1}{2}$.
- 559— Balding's Marsh Sparrow ♂ — $h-5\frac{5}{8}$. $a-8\frac{3}{4}$. $w-2\frac{1}{4}$. $t-1\frac{7}{8}$.
- 560— " " ♀ — $h-6\frac{1}{8}$. $a-9\frac{1}{4}$. $w-2\frac{3}{8}$. $t-2\frac{1}{8}$.
- 561— " " ♀ — $h-5\frac{1}{2}$. $a-8\frac{3}{8}$. $w-2\frac{1}{2}$. $t-1\frac{3}{4}$.
- 562— " " ♀ — $h-5\frac{5}{8}$. $a-9\frac{1}{8}$. $w-2\frac{5}{8}$. $t-1\frac{3}{4}$.
- 563— " " ♀ — $h-5\frac{3}{4}$. $a-8\frac{3}{4}$. $w-2\frac{1}{2}$. $t-1\frac{13}{16}$.
- 564— " " ♀ — $h-5\frac{5}{8}$. $a-9\frac{1}{2}$. $w-2\frac{5}{8}$. $t-1\frac{7}{8}$.
- 565— " " ♀ — $h-5\frac{3}{8}$. $a-8\frac{1}{4}$. $w-2\frac{1}{2}$. $t-1\frac{3}{4}$.
- 566— " " ♂ — $h-5\frac{3}{4}$. $a-8\frac{3}{8}$. $w-2\frac{5}{8}$. $t-1\frac{15}{16}$.
- 567— " " ♂ — $h-5\frac{3}{4}$. $a-8\frac{3}{4}$. $w-2\frac{5}{8}$. $t-1\frac{15}{16}$.
- 568— " " ♀ — $h-5\frac{5}{8}$. $a-9\frac{1}{4}$. $w-2\frac{3}{16}$. $t-1\frac{3}{8}$.
- 570— West. Gull Sparrow ♂ — $h-5\frac{5}{8}$. $a-9\frac{1}{8}$. $w-2\frac{15}{16}$. $t-2$.

Dec. 14.

Foggy morning. Hazy. Temp. of 32° to 34° F.

Dec. 15.

Cloudy. Began raining about 1 this afternoon and

has rained hard ever since with a
hard West Wind.

Dec. 16.

Clear, Cold. Considerable Frost. Cold West Wind.

Dec. 17, 18.

Clear Cold Heavy Frost & Considerable Ice.

Dec. 19.

Slightly hazy. Light Frost. Warmer. Saw Am. V. & L.

Dec. 20.

Weather clearing & wind began rising about
noon, & raised the rest of the day.

Dec. 21.

Cloudy all day. Cold. Went up to Eaton Pass. Saw
following birds:— West. Bluebird; Pallid Greenlet;
West. Gnatcatcher; Dwarf Hermit Thrush; Ruby-crowned Kinglet;
Plain Titmouse; In. Pipit; Vigors Wren; Cal. Thrasher;
Mockingbird; West. Yellowthroat; Audubon's Warbler;
Lutescent Warbler; Cal. Shrike; Cal. Towhee; Spurred Towhee;
Harmon's Sparrow; Intermediate Sparrow; Snowbird.

Golden-crown Sparrow; Thicket Sparrow; Say's Thrasher;
 Cooper's Flycatcher; Red-shafted Flicker; Nuttall's Woodpecker;
 Arkansas Goldfinch; West Goldfinch; Cal. Bush Tit;
 Cal. Partridge; Desert Sparrow Hawk.

Birds were quite abundant, but as they were
 nothing unusual to note, except that the testes
 of the male West Goldfinch were very
 lightly developed — $\frac{3}{8}$ inch long.

571. Plain Titmouse ♀ — $l\ 5\frac{3}{8}$, $a\ 8\frac{1}{2}$, $w\ 2\frac{5}{8}$, $t\ 2\frac{1}{4}$.
 572. Lutescent Warbler ♂ — $l\ 5$, $a\ 7\frac{1}{2}$, $w\ 2\frac{5}{16}$, $t\ 2$.
 573. West. Gnatcatcher ♂ — $l\ 4\frac{7}{8}$, $a\ 6\frac{5}{16}$, $w\ 2$, $t\ 2\frac{1}{4}$.
 574. Cal. Bush Tit ♀ — $l\ 4\frac{1}{4}$, $a\ 5\frac{1}{2}$, $w\ 1\frac{7}{8}$, $t\ 2\frac{1}{8}$.
 575. West Goldfinch ♂ — $l\ 5$, $a\ 8\frac{5}{8}$, $w\ 2\frac{5}{8}$, $t\ 1\frac{15}{16}$.
 576. Valley Partridge ♀ — $l\ 10\frac{1}{8}$, $a\ 13\frac{3}{8}$, $w\ 4\frac{1}{4}$, $t\ 3\frac{1}{4}$.
 577. Dwarf Hermit Thrush ♂ — $l\ 6\frac{5}{8}$, $a\ 10\frac{1}{4}$, $w\ 3\frac{5}{8}$, $t\ 2\frac{3}{8}$.
 578. Mockingbird ♀ — $l\ 9\frac{1}{2}$, $a\ 13\frac{1}{4}$, $w\ 4\frac{1}{8}$, $t\ 4\frac{1}{2}$.
 579. West Goldfinch ♀ — $l\ 5$, $a\ 8\frac{1}{4}$, $w\ 2\frac{1}{4}$, $t\ 1\frac{7}{8}$.
 580. Cal. Bush Tit ♂ — $l\ 4\frac{1}{8}$, $a\ 5\frac{1}{8}$, $w\ 1\frac{7}{8}$, $t\ 2\frac{1}{4}$.
 581. Cal. Bush Tit ♀ — $l\ 4\frac{1}{8}$, $a\ 5\frac{1}{4}$, $w\ 1\frac{7}{8}$, $t\ 2\frac{1}{4}$.
 582. Cal. Towhee ♂ — $l\ 9$, $a\ 11\frac{5}{8}$, $w\ 3\frac{13}{16}$, $t\ 4\frac{3}{8}$.
 583. Cal. Bush Tit ♀ — $l\ 4\frac{1}{8}$, $a\ 5\frac{1}{2}$, $w\ 1\frac{7}{8}$, $t\ 2\frac{1}{8}$.
 584. Cal. Shrike ♂ — $l\ 8\frac{9}{8}$, $a\ 15\frac{1}{8}$, $w\ 4$, $t\ 2\frac{15}{16}$.

Dec. 22.

Clear Pleasant. Clouds banked along the river in afternoon.

Dec. 23.

Clear. Frost in morning. Went up to crays
above Devil's Gate. Saw nothing unusual.

Birds were generally scarce.

585. Green-backed Towhee ♂ — l. $8\frac{1}{4}$ w. 11. a. $3\frac{1}{2}$ t. $1\frac{7}{8}$

586. Green-backed Towhee ♂ — l. $9\frac{1}{4}$ w. 16. a. $5\frac{3}{16}$ t. $3\frac{3}{4}$

587. Vigors Wren ♀ — l. $5\frac{1}{4}$ w. $6\frac{1}{4}$ a. 2 t. 2.

Dec. 24, 25.

Clear. Cool. Considerable Frost in the morning.

Dec. 26, 27.

Clear. Cold with frost & considerable ice in morning.

Went down to Rixby about noon the 26th, and
came back in the evening the 27th. The

following birds were observed; Am. Coot, abundant;
Green-wing Teal; Shoveller; Pintail; Baldpate; Mallard;
all, common Ducks. Am Bittern, one; 1 Snowy
Heron, or some large white heron; Great Blue Heron;
several; several flocks of Canada Geese.

they congregated at night in an open
pond, and during the day and in the evening,
dispersed to the alfalfa + stubble fields to
feed; the "honk" of the "Honker" got. contained
Ducks; they are very shy, and constantly
keep up a "terrible din of 'honking'". There
were two other kinds of geese common,
the "White" Goose & "Gray" Goose. Saw
one white swan; West. Gull and another
kind of gull were common; feeding on
dead ducks + mudhens; Farallone
Cormorant, 5 or six on the fence posts
out in the lake; Killdeer, very abundant
about a dozen Least Sandpipers; Some kind
of grebe out on the lake; immense flocks of
Red-winged Blackbirds, including probably Tricolor
& bicolors, yellow-headed Blackbirds, & Brown
blackbirds around the stock-yards;
Cal Crows by the thousands, they fly east

to their roosting place in the river-bottom
at night, and west in the morning.

Burrowing Owl, several among the pigs in the
pig-corral; Am. Barn Owl, heard at night;
Turkey Buzzards, Marsh Hawks, & Least
Sparrow Hawks, common; and some other
kind of hawk; West. Savanna Sparrows
& Am. Juncos abundant; West. Yellowthroat
& Tule Wrens common in the woods along
the sloughs; West. Meadowlarks & West. Pond
Larks common on the dry pasture; Audubon's
Warblers a few along with the Savanna Sparrows
in the woods and on the ground; House Finch;
Say's Phoebe; Black Phoebe; Cassin's Kingbird;
1 Song; Mourning Dove; 2 Hermann's Song Sparrows
and a half dozen Tree Swallows flying
high over the Lake. Ducks were
quite plentiful, and thousands passed
over the Lake at daybreak.

588. Canada Goose ♂ — l-41 a-72.4 w-21 T-8.
 589. Least Sandpiper ♀ — l-6 $\frac{1}{4}$ a-11 $\frac{1}{4}$ w-3 $\frac{1}{2}$ T-1 $\frac{5}{8}$.
 590. Least Sandpiper ♂ — l-5 $\frac{1}{2}$ a-11 w-3 $\frac{1}{2}$ T-1 $\frac{5}{8}$.
 591. Tule Wren ♀ — l-5 $\frac{1}{8}$ a-6 $\frac{5}{8}$ w-2 T-1 $\frac{3}{4}$.
 592. Tule Wren ♀ — l-5 a-6 $\frac{1}{2}$ w-2 T-1 $\frac{3}{4}$.
 593. Baldpate ♂ — l-21 a-34 w-10 $\frac{1}{4}$ T-5.
 594. Green-winged Teal ♂ — l-14 $\frac{3}{4}$ a-24 w-7 $\frac{1}{4}$ T-3 $\frac{1}{4}$.
 595. Green-winged Teal ♀ — l-14 $\frac{1}{4}$ a-24 w-7 $\frac{1}{4}$ T-3 $\frac{1}{4}$.
 596. Tule Wren ♂ — l-5 $\frac{1}{2}$ a-7 w-2 $\frac{3}{16}$ T-2.
 597. West. Gull Sparrow ♂ — l-6 $\frac{1}{8}$ a-9 $\frac{3}{4}$ w-7 $\frac{1}{2}$ T-2 $\frac{1}{8}$.

Dec. 28.

Over a heavy Santa Ana Wind came up about 1 PM. and
 continued until 5 PM.

Dec. 29.

Light rain. Warm but the sun fully setting
 later.

Dec. 30.

Heavy frost & considerable ice in morning. Clear.

Jan. 31.

Clear. Light frost.

JAN. 1, 1896.

Clear Warm. Slight frost.

Jan. 2.

Clear Warm. Slight Frost. Went down to
marsh near Slaughter House a few minutes
this morning. Saw nothing unusual except
a ♂ Cal. Purple Finch.

598. Cal Towhee ♀ ————— $l 8\frac{1}{2}$, $s-11$, $w-3\frac{1}{2}$, $t-4$.

599. Parkman's Wren ♀ ————— $l 5$, $s-6\frac{5}{8}$, $w-2$, $t-1\frac{7}{8}$.

600. Burrowing Owl ♀ ————— $l 9$, $s-24$, $w-6\frac{3}{4}$, $t-3\frac{3}{8}$.

Jan. 3.

Clear Quite Warm.

Jan. 4.

Clear Warm. Went down to San Pedro bridge
took a boat & rowed out beyond the boat wharves at
Duckman's Island. Saw a number of Cal.
Brown Pelicans resting on the rocks and fishing out
in the water; lots of West Gulls everywhere;
and many Say's Scoters, small Divers; some
Eggs about them; also 11013 Royal Terns;

Steady of Brand's Cormorant swimming on the water and roosting on the rocks, when flying they arrange themselves in lines, like ducks, and fly low over the water. See also.

Colony of large billed Sparrows among the boats and wharves in the harbor.

601. Large billed Sparrow ♂ — L 6. 5-9 $\frac{1}{4}$ 2 $\frac{3}{4}$ T 2 $\frac{1}{2}$.

602. Large billed Sparrow ♂ — L 6. 5-9 $\frac{1}{2}$ 2 $\frac{3}{8}$ T 2 $\frac{1}{8}$.

603. Royal Tern ♂ — L 21 $\frac{1}{4}$ 5-18 $\frac{1}{2}$ 10-15 $\frac{1}{2}$ T 7 $\frac{5}{8}$.

604. West Gull ♂ — L 24 $\frac{1}{4}$ 5-55 $\frac{1}{2}$ 16 $\frac{3}{4}$ T 7 $\frac{1}{2}$.

605. Brand's Cormorant ♂ — L 32. 5-49. 11 $\frac{3}{8}$ T 6.

606. Cal. Brown Pelican ♂ — L 58. 5-101 22 $\frac{3}{4}$ T 8.

Jan 5.

Clear. Warm. Cooler.

Jan 6.

Clear. Frost in morning. Cooler. Breeze.

Jan 7.

Clear. Slight frost.

Jan 8, 9, 10.

Clear. Warm.

Jan. 11, 1896

Clear Warm. Slightly hazy. Went up old
Wilson trail as far as half way house. Saw
following birds in the mountains: Cal. Jay,
21 Woodpecker, Harris's Woodpecker, Red-shafted Flicker,
Blue-backed, Golden Eagle, Cal. Towhee,
Spurred Towhee, Thick-billed Fox Sparrow,
Pallid Wren-tit, Cal. Bush-tit, Lawrence's Fox Sparrow,
Vigors Wren, Dusky Hermit Thrush, Canada Nuthatch,
Cal. Creeper, Ruby-crown Kinglet, Ark. Goldfinch,
Canon Wren, Audubon's Warbler, Hutton's Vireo, and
Erwin's Hummingbird.

Saw down in
the vicinity of Santa Anita: — Harris's Woodpecker,
Harris's Woodpecker, Sharp-shin Hawk, West. Red-tail,
West. Robin (a single pair), West. Bluebird, Blue Tit,
Thumper's Junco, Cal. Thrasher, etc.

07.	Wilson's Junco	♂	—	—	—	—	—	—	—
08.	Wilson's Junco	♀	—	—	—	—	—	—	—
09.	Hutton's Vireo	♂	—	—	—	—	—	—	—
10.	Canada Nuthatch	♀	—	—	—	—	—	—	—
11.	Pallid Wren-tit	♂	—	—	—	—	—	—	—
12.	Cal. Jay	♂	—	—	—	—	—	—	—

Jan 12.

Wazy. Cool.

Jan 13.

Wazy in forenoon. First for a long time and very welcome after the long dry spell. We could hear very much. There has not been two inches yet.

Jan 14.

High fog till noon. Wazy. Am. Pipit down to Thompson.

Jan 15.

Cloudy all day; Middle Stratum, & High Stratum. East Wind.

Jan 16.

Wazy raining last night, and has drizzled all day.

Jan 17.

Cloudy all day. Murky. Rained about a half inch. Seasonal rainfall to date slightly over 2 inches.

Jan 18.

Cloudy. Rained more or less all day. Went up to Arroyo seco canon as far as Barbera; there are no birds at all - hardly, - in the Canon.

Then went across to the Altadena mesa, where
birds were plentiful. Saw two Am. Ravens
sitting on a fence, and succeeding in getting
quite near, though I did not bid them. Birds
are not so easily flushed, when it is rainy
foggy, as when clear; and so I think
Rainy-day collecting is preferable, for shy birds.
Saw in the fields, Oregon & West. Vesper Sparrows,
large flocks of West. Lark Sparrows, House Finches,
Thurber's Junco & Mourning Doves; also
West. Meadow Lark, & West. Savannah Sparrow.
The Oregon Vesper Sparrow was easily
distinguishable at a long distance from the
West. Vesper Sparrow, being much browner.
Saw a flock of about 200 Mourning Doves; this
is an unusually large number for this time
of the year. Saw also Desert Sparrow Hawk, &
Sharp-shin Hawk, both being easily approached,
though not seen till flushed.

* Ovaries considerably developed.

613. Lutescent Warbler ♂ — $l 5\frac{1}{8}$ $s 7\frac{1}{8}$ $w 2\frac{1}{2}$ $t 2$.
614. Audubon's Warbler ♂ — $l 5\frac{3}{4}$ $s 9\frac{3}{8}$ $w 3\frac{1}{8}$ $t 2\frac{3}{8}$.
615. Cal. Shrike ♀* — $l 5\frac{3}{4}$ $s 12\frac{1}{2}$ $w 3\frac{15}{16}$ $t 4$.
616. Oregon Vesper Sparrow ♀ — $l 6\frac{1}{8}$ $s 16$ $w 3\frac{1}{8}$ $t 2\frac{7}{16}$.
617. West. Vesper Sparrow ♀ — $l 6\frac{1}{8}$ $s 16$ $w 3\frac{1}{8}$ $t 2\frac{3}{8}$.
618. West. Vesper Sparrow ♂ — $l 6\frac{1}{8}$ $s 11$ $w 3\frac{1}{2}$ $t 2\frac{11}{16}$.
619. West. Vesper Sparrow ♂ — $l 6\frac{3}{4}$ $s 11$ $w 3\frac{1}{2}$ $t 2\frac{3}{4}$.
620. West. Lark Sparrow ♂ — $l 7$ $s 11\frac{1}{8}$ $w 3\frac{9}{16}$ $t 2\frac{7}{8}$.

Jan. 19.

Partially Cloudy.

Jan. 20.

Cloudy. Wind most of the afternoon.

Jan. 21.

Partially Cloudy. Rainfall to date scarcely 4 in.

Jan. 22.

Partially Clear. Saw Gray Hermit Thrush in the p.m.

Read from Birds the following birds:

621. West. Yellowthroat ♂ — $l 5$ $s 6\frac{3}{4}$ $w 2$ $t 1\frac{7}{8}$.
622. San J. Sandpiper ♀ — $l 6$ $s 11\frac{5}{8}$ $w 5\frac{5}{8}$ $t 1\frac{1}{2}$.
623. Cal. Crow ♀ — $l 17\frac{1}{2}$ $s 34\frac{1}{2}$ $w 11\frac{1}{2}$ $t 7$.

Jan. 23, 1896.

Cloudy and somewhat foggy.

Jan. 24.

Clear. Pleasant.

Jan. 25.

Clear Warm. Beautiful weather. Went across
Altadena, and then up Millard's Canon to fill.
Saw one flock of desert quail & one flock of jacks
flying northwest. Saw, besides a West.
Winter Wren, nothing noteworthy. I discerned
the wren by its sharp, loud note; and
only by waiting & watching near the brush
pile up in the canon where it was, did
I succeed in seeing it.

24. West. Bluebird ♂ — l-7. s-13. w-4 $\frac{1}{2}$ t-2 $\frac{1}{4}$
25. Say's Phoebe ♀ — l-7 $\frac{1}{2}$ s-12 $\frac{3}{4}$ w-4. t-3 $\frac{1}{2}$
26. West. Winter Wren ♀ — l-4 $\frac{1}{2}$ s-5 $\frac{3}{8}$ w-1 $\frac{1}{2}$ t-1 $\frac{1}{10}$
27. Golden-crown Sparrow ♀ — l-7. s-10 w-3 $\frac{1}{2}$ t-1 $\frac{1}{2}$
28. Pallid Wren-tit ♀ — l-2 $\frac{1}{2}$ s-7 $\frac{1}{2}$ w-2 $\frac{1}{2}$ t-1 $\frac{1}{4}$
29. West. Lark Sparrow ♀ — l-5 $\frac{1}{2}$ s-9. w-1 $\frac{1}{2}$ t-1 $\frac{1}{4}$
30. Audubon's Warbler ♀ — l-4 $\frac{1}{2}$ s-7 $\frac{1}{2}$ w-1 $\frac{1}{2}$ t-1 $\frac{1}{4}$

Jan. 26.

Clear. Quite Warm. Very Breezy & spring-like.
Went down to Eucalyptus grove by Kentwood
& Lincoln Ave, and also down to oaks by
Pumping house, this morning. ♀ Anna's
Hummers are quite numerous, and are
building nesting sites, and commencing nests.
Saw one nest scarcely begun, and watched
the hummer carry several loads of web
to it. Lutescent Warblers are common.

Jan. 27.

Cloudy. Breeze had a longer part of day.
Clouds part & sun shows but began singing yet.

Jan. 28.

Clouded up in the night, and clear most all day.

Jan. 29.

A cold north west wind started in the night
and continued all day. Slightly cloudy.

Jan. 30.

There was a heavy S. E. breeze last night but
today it is clear & pleasant.

Jan. 31.

Clear. Pleasant.

Feb. 1.

Clear. Pleasant. Went up to Wilson's Peak last night, remaining during the day, and coming back this evening. Saw following birds in vicinity of Peak: — Thick-billed grackle (abundant around Stroud camp), Mt. Chickadee (common at Stroud), Black-bellied Nuthatch (Only one seen 4 mi. Stroud), Cal. Woodpecker (Everywhere from the river below Martins to the summit, and down below Stroud), White-bellied Woodpecker (2 or 3), Hairy Woodpecker (2 or 3), Red-shafted Flicker, West. Robin (large numbers around Stroud, but none anywhere else), West. Bluebird (common around Stroud), Red-eyed Vireo, Pileated Woodpecker, Cal. Thrasher, Cal. Jay (these last three common in Forest Grove), Blue-fronted Jay (Especially abundant about Forest Grove), Sp. Woodpecker, Audubon's Warbler (to the very summit), Cal. Creeper (Several near Stroud),

Canada Nuthatch (Shot 1 and heard another at Star 2),
Townsend's Solitaire (Shot 2 and heard others at Star 2),
Thru-billed Sparrow, Townsend's Sparrow (On track),
Cal. Screech Owl (Shot one & heard another, calling
up last night below Martins), Cal. Condor
(Saw a single beauty flying southeast over
the summit), Turkey Vulture, Dwarf Hermit
Thrush (Would come out at dusk, and flit
along the trail, like Poor-will), Golden Eagle (3),
Cal. Purple Finch (Several at Martins), Mt. Partridge
(a single flock on Mt. Harvard), Red-tailed Vulture
(large flocks in the oaks below Martins),
Palm Titmouse (On Harvard), Lutescent Warbler (one
at Martins), Lewis's Woodpecker (10 or 12
about Martins and on Harvard), Poor-will
(Lugged shot one, and I shot one on the trail
at dusk this evening; This shows
them to be common). Birds were
very abundant at Martins, and tolerably

not Striped. Considerable snow on
the north sides of the Mts. Fine Temp.!!

- 31- Cal. Screech Owl ♀ — $l-9\frac{1}{4}$ $s-24$ $w-7\frac{1}{8}$ $t-3\frac{3}{4}$
32- Slender-billed N-thatch ♀ — $l-5\frac{7}{8}$ $s-10\frac{3}{4}$ $w-3\frac{1}{2}$ $t-2$
33- Thick-billed Sparrow ♀ — $l-7\frac{1}{4}$ $s-9\frac{5}{8}$ $w-3\frac{1}{16}$ $t-3\frac{1}{2}$
34- Townsend's Solitaire ♂ — $l-8\frac{5}{8}$ $s-17\frac{3}{4}$ $w-4\frac{9}{16}$ $t-4\frac{1}{8}$
35- Pewee ♀ — $l-8\frac{1}{4}$ $s-17\frac{3}{4}$ $w-6$ $t-3\frac{9}{16}$
36- Mt. Chickadee ♂ — $l-5\frac{1}{2}$ $s-8\frac{3}{4}$ $w-2\frac{7}{8}$ $t-2\frac{7}{16}$
37- Mt. Chickadee ♂ — $l-5\frac{1}{2}$ $s-8\frac{3}{4}$ $w-2\frac{3}{4}$ $t-2\frac{1}{2}$
38- Ruby-crowned Kinglet ♂ — $l-4\frac{1}{2}$ $s-7\frac{3}{8}$ $w-2\frac{7}{16}$ $t-1\frac{1}{16}$
39- Dwarf Hermit Thrush ♀ — $l-6\frac{3}{8}$ $s-10\frac{1}{2}$ $w-3\frac{1}{2}$ $t-2\frac{5}{8}$
40- Spurred Towhee ♀ — $l-8\frac{1}{4}$ $s-10\frac{1}{2}$ $w-3\frac{1}{4}$ $t-3\frac{3}{4}$
41- Lewis' Woodpecker ♀ — $l-10\frac{1}{2}$ $s-19\frac{1}{4}$ $w-6\frac{1}{2}$ $t-3\frac{3}{8}$
42- Ruby-crowned Kinglet ♂ — $l-4\frac{1}{2}$ $s-7\frac{3}{8}$ $w-2\frac{7}{16}$ $t-1\frac{1}{16}$

Feb 2

Cloudy all day. Sprinkled in the evening.

Feb 3.

Clear. Slight frost in morning.

Feb. 4, 1896

Clear. Considerable frost in morning.

Feb. 5

Clear. Frost.

Feb. 6.

Clear. Heavy frost in morning.

Feb. 7

Clear. Sat. Night in the night. Went down to the bridge a while this a.m. Found a number of mounds of dirt in process of construction. Two of them seemed to be nearly if not quite finished, but I did not climb to them. Saw two different hummers light on a bank to pick off seeds. The hummers are numerous & very active. Saw a fine Red-capped Tanager, near the pumping engine. It had no note, but kept picking off loose bark, for skidder etc. I got a fine, close view of it, and it was a beauty. My gun was there!

Feb. 8, 1896.

Clear frost - sunny, but warm & spring-like during the day. Went down the arroyo from California Street to Pumping House & on to park & encampment near on Lincoln Ave. Saw following birds: West. Yellowthroat, Audubon's Warbler, Lutescent Warbler, Pileolated Warbler (first of season; heard it in a willow thicket, but when I tried to follow it, it stopped yelling, and I lost it; the note was unmistakable²), Hutton's Vireo (are singing and just starting), Parkman's Wren, Cal. Thrasher, Dwarf Hermit Thrush (Common), Cal. Bush Tit, Pallid Wren-tit, West. Gnatcatcher, Ruby-crowned Kinglet, West. Bluebird, Black Phoebe, Cal. Jay, Cal. Purple Finch, House Finch, Golden-crown Sparrow, Intermediate Sparrow, Sparrow Towhee, Cal. Towhee, Thayer's Junco, Hermann's Song Sparrow, Ark. Goldfinch, West. Goldfinch, Am. Osprey (flying in circles like Buzzards), Turkey Vulture, Cal. sharp-shinned Thrasher, Anna's Hummingbird, Mockingbird, Lincoln's Sparrow, West. Savanna Sparrow, West. Lark Sparrow, Great Sparrow Hawk, West. Woodcock & Cal. Siskin.

including those of yesterday, I found 9 nests,
all but one of which being in course of
construction. I took one Set the first
for 1896. Set — Anna's Hummer $\frac{(9)}{2}$; slightly

incubated. Nest 9 ft. up, on oak twig. — Howell's.

643. Spurred Towhee ♂ — $l-8\frac{1}{8}$, $s-10\frac{3}{4}$, $w-3\frac{1}{8}$, $t-4$.
644. Spurred Towhee ♀ — $l-7\frac{3}{4}$, $s-16\frac{1}{2}$, $w-3\frac{3}{8}$, $t-3\frac{7}{8}$.
645. Dwarf Hermit Thrush ♀ — $l-6\frac{5}{8}$, $s-10\frac{5}{8}$, $w-3\frac{1}{2}$, $t-2\frac{3}{4}$.
646. Dwarf Hermit Thrush ♂ — $l-6\frac{7}{8}$, $s-11\frac{1}{4}$, $w-3\frac{5}{8}$, $t-2\frac{7}{8}$.
647. Cal. Purple Finch ♀ — $l-5\frac{1}{8}$, $s-9\frac{3}{4}$, $w-2\frac{1}{4}$, $t-2\frac{1}{8}$.
648. Cal. Purple Finch ♀ — $l-6$, $s-9\frac{5}{8}$, $w-2\frac{1}{16}$, $t-2\frac{5}{16}$.
649. Hermann's Song Sparrow ♀ — $l-6$, $s-8$, $w-2\frac{7}{16}$, $t-2\frac{1}{2}$.
650. Lincoln's Sparrow ♀ — $l-5\frac{1}{2}$, $s-7\frac{3}{4}$, $w-2\frac{1}{2}$, $t-2\frac{1}{4}$.
651. West. Savanna Sparrow ♀ — $l-5\frac{1}{2}$, $s-8\frac{15}{16}$, $w-2\frac{7}{8}$, $t-2\frac{1}{8}$.
652. Cal. Jay ♂ — $l-11\frac{1}{4}$, $s-14\frac{5}{8}$, $w-4\frac{11}{16}$, $t-5\frac{1}{2}$.
653. Cal. Jay ♂ — $l-11\frac{1}{2}$, $s-15$, $w-4\frac{5}{8}$, $t-5\frac{3}{16}$.

Feb. 9.

Clear Warm. Slight frost in morning. On
the place today, Cal. Bush Tit, West. Gnatcatcher, Desert Wren.

Feb. 10.

Hazy all day. Warm.

Feb. 11.

Clear. Pleasant.

Feb. 12.

Clear Pleasant. Saw a Heermann's Song Sparrow carrying nesting material up into the top of the "round tower", this morning. If that don't beat! A female is building a nest six feet upon a eucalyptus twig, six feet from the south side of the house. She started yesterday morning and she has accumulated a ball of sticks and twigs. One foot got tangled in the nest, and when she flew, she dragged half of it away. Heard a Mockingbird exactly working a Cliff Swallow. This is the first time I heard Mockingbirds give this note since the Swallows left in Sept. Is it possible that the Mockers have heard swallows migrating over head lately, or do they remember the notes from last year. I think the former!

Went down to bridge a few minutes before 10. I saw the female nest, but saw no bird. Saw nothing on the way. I didn't see a single hummer! Is it possible the Stewart might be summering abroad. He collects every day for every 100 birds? The nests seemed nearly finished. Saw a Black-crowned Night Heron.

* 654. Cactus Wren ♂ — l- $8\frac{1}{2}$ s-11, v- $3\frac{3}{8}$ 7- $3\frac{1}{4}$
655. Ark. Goldfinch ♀ — l- $4\frac{1}{4}$ s- $7\frac{3}{8}$ v- $2\frac{1}{8}$ t- $1\frac{1}{2}$

Feb. 13.

Went down to the arroyo a while this morning. Saw
another Set. Arremonothamnus $\frac{10\frac{1}{2}}$ — fresh: nest 2 ft of
— willow, below pumping engine.

Feb. 14

Clear. Warm.

Feb. 15.

Clear. Very Warm. Went from pumping house
to arroyo up beyond Banks Gate. Saw nothing
unusual except a Cactus Wren. It was singing.
Found two or three more humane nests * felt I had
a little about a quarter of those this afternoon.

Feb. 16

Very warm.

Went down to arroyo a few minutes this morning.
Took another Set. Arremonothamnus $\frac{11}{2}$ — incubated;
nest 16 ft up on oak, below arroyo drive, above pumping
engine. Got the gulf bird.

Feb. 17.

Clear. Very Warm. 85° — clear & fresh. The
Ark. goldfinch is singing, as also is
most of the birds.

Feb. 18, 1896

Clear. Time required for building nest, 6 days.
Feb. 11, 1896.

Found two eggs in the house and
one in the nest. The first was
found in the house and the second
in the nest. The first was found
in the house and the second in the
nest. The first was found in the
house and the second in the nest.
 $\frac{12}{2}$ $\frac{13}{2}$. The first fresh
and second incubated. The
other day I took a nest. The
nest was too large to cut off with my knife. I went
to it the morning after and found the
bird had torn it all to pieces (I
was at first thinking the eggs gone) (?)

Feb. 20.

Went to the grove, near
Lincoln Ave. this morning. Took
Set. Anna's Hummer $\frac{14}{2}$.

Saw some robins on the plane.

Feb. 21.

Clear, Pleasant.

Feb. 22.

Clear, Pleasant. Went out to Santa Anita,
and then up to Stone Canon Wash. Saw
not a single notable bird. There are
no migrants.

656. Parkman's Wren ♂ — $l. 5\frac{1}{4} \cdot 6\frac{3}{4} \cdot 2\frac{1}{8} \pm 1\frac{7}{8}$

657. Cal. Shrike ♂ — $l. 9\frac{1}{4} \cdot 12\frac{1}{2} \cdot 3\frac{7}{8} \pm 4$

658. Red-shafted Flicker ♂ — $l. 13\frac{1}{2} \cdot 22 \cdot 6\frac{7}{8} \pm 5\frac{1}{16}$

659. Nuttall's Woodpecker ♀ — $l. 7\frac{3}{4} \cdot 13\frac{1}{2} \cdot 4\frac{1}{8} \pm 2\frac{7}{8}$

660. Spurred Towhee ♂ — $l. 8\frac{1}{2} \cdot 11\frac{1}{8} \cdot 3\frac{1}{2} \pm 4$

661. Golden-crown Sparrow ♂ — $l. 7\frac{1}{2} \cdot 10\frac{1}{4} \cdot 5\frac{1}{4} \pm 3$

662. Hutton's Vireo ♂ — $l. 5 \cdot 8 \cdot 2\frac{1}{2} \pm 2$

Feb. 23.

Clear, Warm. Saw some Robins & Towhees on
the plane. There is a Herman's Sp. Sparrow
just as yet in the foreground. Did not find it

Feb. 24, 1896.

Clear. Pleasant. The Black Phoebe down
to the Universalist Church here began nest
building. The female gathers mud where the
street-sprinklers have passed in the road.

Feb. 25.

Clear. Warm.

Feb 26.

Clear. A S. T. A. started this afternoon. Went
down to arroyo below Linda Vista, a while this
evening. Saw 9 Violet-green Swallows

migrating North west, against the wind.

63. Valley Partridge ♂ — $l-10\frac{1}{4}$, $s-14$, $w-4\frac{1}{8}$ to $3\frac{1}{2}$.

64. Valley Partridge ♀ — $l-9\frac{5}{8}$, $s-13\frac{5}{8}$, $w-4\frac{1}{4}$, $t-3$.

65. Spurred Towhee ♂ — $l-8\frac{1}{2}$, $s-10\frac{5}{8}$, $w-3\frac{1}{4}$, $t-3\frac{7}{8}$.

66. Golden-crown Sparrow ♀ — $l-7\frac{1}{4}$, $s-9\frac{3}{4}$, $w-3$, $t-3$.

67. Golden-crown Sparrow ♂ — $l-7\frac{5}{8}$, $s-10\frac{1}{4}$, $w-3\frac{1}{8}$, $t-3\frac{3}{4}$.

68. Cal. Towhee ♀ — $l-8\frac{3}{4}$, $s-11$, $w-3\frac{1}{2}$, $t-4$.

The 9 Parrots were contained in all eggs.

Feb. 27.

Clear. Slight - Santa Ana this evening. Jaggett brought me from Bisby:—

664. Yellow-headed Blackbird ♂ — $l-10\frac{1}{4}$ $c-17\frac{1}{8}$ $w-5\frac{1}{2}$ $t-3\frac{7}{8}$

670. Red-winged Blackbird ♂ — $l-9\frac{5}{8}$ $c-16$ $w-5\frac{1}{8}$ $t-4$

671. Red-winged Blackbird ♀ — $l-8$ $c-13\frac{1}{8}$ $w-4\frac{1}{4}$ $t-3\frac{1}{16}$

672. Cal. Crow ♀ — $l-17\frac{1}{2}$ $c-35\frac{1}{2}$ $w-11\frac{5}{8}$ $t-6\frac{3}{4}$

673. Cal. Crow ♂ — $l-18\frac{3}{4}$ $c-36\frac{1}{2}$ $w-11\frac{3}{4}$ $t-7$

Feb. 28.

Hazy. ~~Foggy~~ in forenoon. This is the first fog for a long time, and it is much needed, as it is very dry. Saw several Robins about the place this afternoon, and the song sparrows are common about town, and are singing.

Feb. 29.

Partially cloudy. Cool. The Hermosa Song Sparrow's nest which I saw the first of Feb. on the 12th, has one egg in this morning. The Hummers are not yet hatched.

Went today a little ways up Millard's Canon, and
then down the arroyo to Devil's gate. Saw
following birds:—

Cal. Condor, Turkey Vulture, Sharp-shinned Hawk,
Violet-green Swallow, Intermountain Warbler, Hutton's Vireo,
Audubon's Warbler, Golden-crown Sparrow, Cal. Towhee,
Spurred Towhee, Pallid Wren-tit, Cal. Bush-tit, Cal. Jay,
West. Gnatcatcher, Ruby-crown Kinglet, Dwarf Hermit Thrush,
Ark. Goldfinch, Vigor's Wren, Parkman's Wren, House Finch,
West. Tanager, West. Chipping Sparrow, Black Shrike,
West. Lark Sparrow, Red-shafted Flicker, Intermountain Sparrow,
Cuna's Hummingbird, Heermann's Song Sparrow,

Mex. Horned Lark, West. Meadowlark, Road-runner,
West. Red-tail, Rufous Hummingbird, Valley Partridge,
Cal. Shrike, Mourning Dove, Cal. Thrasher,
West. Sparrowhawk, West. Goldfinch, Black-belt Sparrow.

Saw fully 75 Violet-green Swallows going North with-
in the Canon were diving about the mouth of Millard's,
and I saw it 3 times. In with a flock of 100
+ looked twice then about 100 to 150 it still

Found a Bushtits nest nearly completed! Saw
the birds at work on it. Heard two or three
Lutescent Warblers singing. Their song is a
subdued warble something like a Black-throated S.W.

Found a Hutton's Vireo's nest completed! I
heard a ♂ sing and followed up, to shoot it. I
waited a minute when I saw it, and was
surprised to see it lay up to a nest, and put a
worm to the ♀ seated in the nest. There were
no eggs in the nest, but the latter seemed entirely done.
This is the earliest season, as far as nesting goes,
that I have ever seen here. Saw two Rufous
Hummers flying North-west, each alone.

674. Lutescent Warbler ♂ — $l\ 5\frac{1}{8}$ — $7\frac{1}{2}$ — $w\ 2\frac{3}{8}$ — $t\ 2$.
675. Audubon's Warbler ♀ — $l\ 5\frac{1}{2}$ — 9 — $w\ 2\frac{7}{8}$ — $t\ 2\frac{1}{4}$.
676. Intermediate Sparrow ♀ — $l\ 6\frac{1}{2}$ — $9\frac{3}{8}$ — $w\ 3$ — $t\ 2\frac{3}{4}$.
677. Lincoln's Sparrow ♀ — $l\ 5\frac{3}{8}$ — $7\frac{3}{4}$ — $w\ 2\frac{1}{2}$ — $t\ 2\frac{1}{4}$.
678. Intermediate Sparrow ♀ — $l\ 6\frac{1}{2}$ — $9\frac{1}{4}$ — $w\ 2\frac{7}{8}$ — $t\ 2\frac{5}{8}$.
679. Intermediate Sparrow ♀ — $l\ 6\frac{1}{2}$ — $9\frac{1}{2}$ — $w\ 3$ — $t\ 2\frac{3}{4}$.

80. Mockingbird ♀ — $l-9\frac{3}{8}$ $a-13\frac{1}{8}$ $w-4\frac{1}{8}$ $t-4\frac{1}{8}$
 81. Cal. Thrasher ♀ — $l-12$ $a-12\frac{5}{8}$ $w-2\frac{3}{4}$ $t-5\frac{1}{4}$
 82. West. Meadowlark ♀ — $l-9$ $a-14\frac{1}{2}$ $w-4\frac{3}{16}$ $t-2\frac{1}{2}$
 83. Road-runner ♀ — $l-22\frac{1}{2}$ $a-26\frac{1}{2}$ $w-6\frac{3}{4}$ $t-11\frac{1}{2}$

The ovaries of the Meadowlark & Thrasher were quite well developed, ova — o. The Road-runner contained a full sized egg almost ready to lay, and five others of different sizes down to — ●.

March 1, 1896.

Clear. A heavy cold North-west wind started last evening, and has continued all day.

March 2.

Very cold in morning with a few flakes of snow. Rained nearly all day. Snow on Mts.

March 3.

Rained most of the day; considerable hail. A short thunder storm in the forenoon. Snow very low on Mts. A few large flakes here this morning.

Duggitt brought me, shot at Santa Anita: —

84. Barn-tailed Pigeon ♀ — $l-15\frac{1}{2}$ $a-26$ $w-5\frac{1}{8}$ $t-5\frac{1}{2}$

Ranish $3\frac{1}{2}$ miles; total for season so far - $7\frac{1}{2}$.
March 4.

Partly Cloudy. Snowed all over the Mts, Alamosa,
Cortez & Verdegathills, so that they are perfectly white
and snowed about an inch here during the night,
but soon melted. There are young in
the Heron's Egg Sparrow's nest in the Bufas
grasses, as I can hear them crying, whenever
the old birds carry them crumbs. A Towhee
has a nearly finished nest in the rose arbores.
Went up to Eaton's Canon Wash this evening.
Large numbers of Band-tailed Pigeons had
come down off the Mts, and were feeding
on the sycamore balls, and in the brush on
the foot-hills. There were hundreds of Spurred
Towhees, and a few Townsend's Sparrows, &
Thomson's Junco, also in the wash, but no
other birds were unusually common.
Audubon's Warblers were constantly flying
down off the Mts into the Valley, and were
especially abundant in crevices and on
Plowed fields.

685. Band-tailed Pigeon ♀ — l- $15\frac{1}{4}$ s-26. w- $8\frac{7}{8}$ t- $5\frac{1}{2}$.

686. Band-tailed Pigeon ♀ — l- $15\frac{1}{4}$ s- $25\frac{3}{8}$ w- $8\frac{3}{8}$ t- $5\frac{1}{4}$.

687. Dwarf Hermit Thrush ♂ — l- $6\frac{1}{2}$ s- $11\frac{7}{8}$ w- $3\frac{5}{8}$ t- $2\frac{3}{4}$.

688. Cal. Woodpecker ♀ — l- $9\frac{3}{8}$ s- $11\frac{7}{8}$ w- $5\frac{3}{4}$ t- $3\frac{1}{4}$.

689. Band-tailed Pigeon ♀ — l- $15\frac{3}{4}$ s- $26\frac{1}{2}$ w- $8\frac{3}{4}$ t-6.

The Pigeon Stomachs contained Holly berries and Green Sycamore balls.

March 5.

Early Clear. ^{frost.} The snow has melted as far as Lakeville. Robins are common in town, and I saw several in the place. The Hummer is still sitting the 1st egg.

— Reproduced the evening. Took

the Set of Heermann's Song Sparrow $\frac{40}{3}$, slightly incubated, nest 12 feet up in Cypress about 1000 feet.

March 6.

Clear. Warm. The young Heermann's Song Sparrow in the poppy garden, have left the nest and are scattered over the place. They seem to be the first of the season. The young of the

March 7, 1896.

Clear. Warm. Went up Millard's Canyon to
Cliff Cabin, where there was 8 inches of snow.
On the way up took lots of Cal Shrike ⁽¹²⁾/₆
nearly fresh, and 5 badly incubated. The
Purplish nest was larger, but no eggs.
Took Set, Hutton-Vireo ⁽¹⁵⁾/₃ fresh. Early!
The ♂ was on the nest, but the other bird was
not to be seen. The ♂ was very peevish,
and would not leave the nest, but fought my hand
till I had to pick him off, when he held on
to the nest and scratched so that he slightly
cracked two of the eggs. The nest & set were
beauties. Saw following birds:—
Violet-green Swallows (large number migrating),
White-throated Swifts (several around the rocky cliffs),
Parkman's Wren (beginning to sing), Vigors Wren,
Varied Thrush (Saw 4 in canon, very shy),
Lamprolaima Goldfinch, West. Goldfinch,
Sharp-shinned Hawk (Heard its loud scolding cry, of

- several syllables, resembling a Spanish Hawk),
 Blue-winged Jay (Several below the Snow Line),
 West. Savanna Sparrow, Townsend's Sparrow,
 Band-tailed Pigeon (Large flocks in the Canon),
 Dwarf Hermit Thrush (Exceptionally abundant), etc.
90. West. Chipping Sparrow ♂ — $l-5\frac{3}{8}$ $o-8\frac{1}{4}$ $w-2\frac{11}{16}$ $t-2\frac{1}{2}$
91. " " " ♂ — $l-5\frac{1}{4}$ $o-8\frac{5}{8}$ $w-2\frac{1}{2}$ $t-2\frac{1}{2}$
92. " " " ♀ — $l-5\frac{5}{8}$ $o-9$ $w-2\frac{1}{2}$ $t-2\frac{1}{2}$
93. " " " ♂ — $l-5\frac{5}{8}$ $o-8\frac{7}{8}$ $w-2\frac{1}{8}$ $t-2\frac{1}{2}$
94. Hutton's Vireo ♂ — $l-4\frac{7}{8}$ $o-7\frac{7}{8}$ $w-2\frac{1}{2}$ $t-2$
95. West. Lark Sparrow ♂ — $l-6\frac{3}{4}$ $o-11$ $w-3\frac{1}{2}$ $t-3$
96. Varied Thrush ♀ — $l-9\frac{1}{4}$ $o-15\frac{3}{8}$ $w-5$ $t-3\frac{3}{8}$
97. Audubon's Warbler ♂ — $l-5\frac{5}{8}$ $o-9\frac{1}{4}$ $w-3$ $t-2\frac{1}{4}$
98. Spurred Towhee ♀ — $l-8$ $o-10$ $w-3\frac{1}{8}$ $t-2\frac{5}{8}$
99. Thunders Jay ♂ — $l-6$ $o-9\frac{1}{2}$ $w-3\frac{1}{8}$ $t-2\frac{3}{8}$
100. Dwarf Hermit Thrush ♂ — $l-6\frac{3}{4}$ $o-10\frac{7}{8}$ $w-3\frac{1}{2}$ $t-2\frac{5}{8}$
101. " " " ♂ — $l-6\frac{7}{8}$ $o-10\frac{7}{8}$ $w-3\frac{9}{16}$ $t-2\frac{1}{4}$
102. " " " ♂ — $l-6\frac{7}{8}$ $o-10\frac{7}{8}$ $w-3\frac{1}{2}$ $t-2$

March 8.

Clear Pleasant.

March 9.

Clear Pleasant. Went down to Naves

few minutes this morning. Saw
Pipit, House Martin, White-throat, Sallow,
Cuckoo, etc.

March 10.

Clear Pleasant.

Mar. 11.

Clear. Duggitt brought me from his house

703. yellow-headed Blackbird ♂ — $l. 10\frac{1}{2}$ — $17\frac{1}{2}$ — $5\frac{5}{8}$ — $3\frac{7}{8}$

704. " " " ♂ — $l. 10\frac{3}{4}$ — $17\frac{1}{2}$ — $5\frac{5}{8}$ — $4\frac{3}{8}$

705. Tricolored " ♂ — $l. 9\frac{3}{4}$ — $15\frac{1}{2}$ — 5 — $3\frac{3}{4}$

706. yellow-headed " ♂ — $l. 10\frac{3}{8}$ — $17\frac{1}{8}$ — $5\frac{1}{2}$ — $3\frac{3}{4}$

707. " " " ♀ — $l. 9$ — $14\frac{3}{4}$ — $4\frac{11}{16}$ — $3\frac{3}{8}$

708. " " " ♂ — $l. 10\frac{1}{4}$ — $17\frac{3}{8}$ — $5\frac{3}{8}$ — $3\frac{7}{8}$

709. " " " ♂ — $l. 10\frac{1}{2}$ — 17 — $5\frac{3}{8}$ — $3\frac{7}{8}$

710. " " " ♀ — $l. 9$ — $14\frac{7}{8}$ — $4\frac{3}{4}$ — $3\frac{7}{16}$

711. " " " ♀ — $l. 8\frac{3}{4}$ — $14\frac{3}{8}$ — $4\frac{1}{2}$ — $3\frac{3}{8}$

712. " " " ♀ — $l. 9$ — $14\frac{3}{4}$ — $4\frac{3}{8}$ — $3\frac{5}{8}$

Went down to Short's Point this afternoon. Saw
Sand-tailed Pigeon, Say's Phoebe, etc. Looked
at several Barn Owls' nest, but they have evidently
been robbed.

7/3. *Thurber's junco* ♂ — $h = 6\frac{3}{8}$, $s = 9\frac{7}{8}$, $w = 3\frac{1}{8}$, $t = 2\frac{3}{4}$.

11/4. Say's Phoebe ♂ — $h = 8$, $s = 13$, $w = 4\frac{1}{4}$, $t = 3\frac{3}{8}$.

1/5. Red-winged Blackbird ♂ — $h = 9\frac{1}{4}$, $s = 15\frac{1}{2}$, $w = 5$, $t = 3\frac{3}{8}$.

March 12.

Clear. Hummer is sitting their nests.

March 13.

Clear. Hummer still to be seen on the N.W.C.

The Hummer is still sitting!

March 14.

Cloudy or foggy nearly all day. Went
to Range Saw Canyon and up to the top. Took
the rings. Birds were exceedingly scarce
beyond the bottom. Saw following birds
beyond the bottom: — Cooper's Hawk, Turkey Vulture,
Mountain Bluebird, Red-shafted Flicker.

Hudson's Woodpecker, Black-blaze, Cal. Jay,
Hesperian sparrow, Ash. Gold finch, Cal. Towhee,
Spurred Towhee, Thayer's junco, West. Blackbird,
Mountain Vireo, Ruby-crowned Kinglet, Vigors Wren,
Townsend's Solitaire, Duffer's Hermit Thrush,
Canyon Wren, Forked-bill Wren, Plain Titmouse,
Cal. Gnatcatcher, Yellow-bellied Sapsucker, and
Audubon's Warbler.

Saw
a number of Canyon White-throats, Swift-
Violet green Swallows, etc.

Took the
Lincoln's Sparrow about the dump piles in the
ravine near Terminal track lunch times.

The Bush-tit's nest in Lower Mallards,
has no eggs in it yet, but the birds are
still at work on it. Thought I heard

the song of one of the Fox Sparrows, but
can not get definite. It resembled the
whistle I heard at Prokhorov last summer.
The Vigors Wrens are singing on the Mt. side.

16. Townsend's Solitaire ♀ — $l 8\frac{3}{4}$, $s-14$, $w-4\frac{5}{8}$, $t-4$.
 17. Hutton's Vireo ♂ — $l 4\frac{7}{8}$, $s-7\frac{3}{4}$, $w-2\frac{7}{16}$, $t-2$.
 18. West. Bluebird ♀ — $l 6\frac{1}{2}$, $s-12\frac{3}{8}$, $w-4\frac{1}{2}$, $t-2\frac{9}{16}$.
 19. Thumberg Junco ♂ — $l 6\frac{1}{4}$, $s-9\frac{5}{8}$, $w-3\frac{1}{8}$, $t-2\frac{3}{4}$.
 20. Heermann's Song Sparrow ♂ — $l 6$, $s-8\frac{1}{4}$, $w-2\frac{1}{2}$, $t-2\frac{7}{16}$.
 21. " " ♂ — $l 6$, $s-8$, $w-2\frac{7}{16}$, $t-2\frac{1}{2}$.
 22. Cal. Towhee ♀ — $l 8$, $s-10\frac{1}{2}$, $w-3\frac{1}{4}$, $t-3\frac{7}{8}$.
 23. Ark. Goldfinch ♂ — $l 4\frac{1}{2}$, $s-8$, $w-2\frac{5}{8}$, $t-1\frac{3}{4}$.
 24. Lincoln Sparrow ♂ — $l 5\frac{3}{4}$, $s-7\frac{7}{8}$, $w-2\frac{1}{2}$, $t-2\frac{1}{4}$.
 25. " " ♂ — $l 5\frac{5}{8}$, $s-8$, $w-2\frac{1}{2}$, $t-2\frac{5}{16}$.
 26. " " ♂ — $l 5\frac{3}{4}$, $s-8$, $w-2\frac{1}{2}$, $t-2\frac{7}{16}$.

March 15.

Saw Townsend's Solitaire in company
 here — the place. The Hummer
 has fooled me a long time, but today I found
 out that she has not been sitting — since
 the nest contains two young, I should
 think about a week old. That would
 make incubation only 18 days!

Found a Bush-tits nest in the cypress tree
out to the street. I have seen the
Bush-tits about the place nearly all winter,
but I hadn't any idea they would build
here in town. The nest seems to be
finished, but there are no eggs yet.
Saw a goldfinch building. Also another
Anna's Hummer's nest, on a cypress tree
twig, only about 5 ft under the Bush-tits
nest, it is first. The following
nests are in one place:—

Anna's Hummer, 2 nests.
House Finch, 3 " "
Acorn Woodpecker 2 " (Both seen).
Cal. Towhee 1 " "
Ark. Goldfinch 1 " "
Cal. Bush-tit 1 " "

How's that for March 15th! The
young Song Sparrows, are taking care of themselves
now.

Saw following birds about the place today:-
West. Goldfinch, Ark. Goldfinch, Intermediate Sparrow,
Bob. Towhee, Dwarf Hermit Thrush, House Finch,
Luna's Hummer, Rufous Hummer, Mockingbird,
Verreaux's Song Sparrow, Red-bellied Flicker,
Ruby-crowned Kinglet, Cal. Bush-tit, West. Robin,
Bl. Shrike, Audubon's Warbler, West. Chatski,
West. Chipping Sparrow, West. Lark Sparrow,
and Black Phoebe.

March 16.

Very Pleasant. First Bullock's Oriole of
the season, today. About 8 o'clock this morning
saw one, and presently it came and lit
on top of one of the high Eucalyptus trees. After
staying about 5 minutes it flew in West.
Have heard the Mockingbird imitating
notes for several weeks.

Rufous Hummers are quite common around the
flowering pink & orange trees.
There is still a rather a thin mist in the West.

March 17, 1896.

Foggy in the morning. The Hummer's Nest
out to the road has one egg in it.

Saw first Arkansas Kingbird this evening.

March 18

Clear. Hazy. First Ariz. Hooded Oriole on
place this morning.

March 19, 1896

Clear. Warm. Saw Ariz. Hooded & Bell's Oriole
on the place this morning. Two eggs in Hummer
nest and she has been sitting since 1st egg.

Went down to the canyon and across to
look at the little canyon. Saw a bird
nest on a rock on the left side of the canyon
on the left, and I saw 2. One in a hole
out of a dead yucca stalk; when it came
out it was a small bird. Saw nothing
else of note.

727 West. Goldfinch ♂ — $l-4\frac{7}{8}$, $a-8\frac{5}{8}$, $w-2\frac{2}{3}$, $t-1\frac{7}{8}$.

728. Sparrow Towhee ♂ — $l-8$, $a-10\frac{3}{4}$, $w-3\frac{3}{8}$, $t-3\frac{7}{8}$.

729. Mockingbird ♂ — $l-10$, $a-14\frac{1}{2}$, $w-4\frac{5}{8}$, $t-5\frac{1}{2}$.

March 23, 1896

Saw a ♀ Gray Hooded Oriole the morning
- out of nearly fledged Cal Towhees. Saw
saw about 100 of the place. The eggs
must have been laid very early in Feb.!

March 24.

azy. Pleasant. Went out to Santa Anita and
up by Santa Anita Canon. Saw following birds -
Mockingbird, House Finch, C. R. Goldfinch, West. Song Sparrow,
West. Chipping Sparrow, Henshaw's Song Sparrow, Anna's Hummer,
W. Hooded Oriole, Int. White Sparrow, Cal. Parrot,
C. Towhee, Audubon's Warbler, Ruby-crowned Kinglet,
Russet-backed Thrush, Black-crowned Night Heron (5 or 6 in
- and seen at Santa Anita), Turkey Vulture, Bull Terrier
- (C), Hutton's Vireo, Or. Wren's Wren, Cal. Jay,
West. Woodpecker, West. Sparrowhawk, purple Towhee,
mourning Dove, Potted Wren-tit, Lewis' Woodpecker,
C. Woodpecker, Red-shafted Flicker, Plain Titmouse,
Water Crow (a pair about the falls on the Canon,
at a higher place, dark, with C. Wren Wren),

* Sources contained eggs this morn. O.

Black Phoebe, Cowbird, West. Gnatcatcher,
Dwarf Hermit Thrush, Golden-crowned Sparrow,
Harris' Woodpecker (one in Santa Anita oaks),
Nuttall's Woodpecker, Cal. Partridge, Rufous Hummer,
Costa's Hummer (♂ & ♀ abouts flowering plant),
Violet-green Swallow, Band-tailed Pigeon (2 or 3
small flocks flying toward mountains),
W. T. Goldfinch, Vigors Wren, Cal. Thrasher, &
Cliff Swallow (a dozen going Northeast).

Birds are abundant among the Oaks.

730. Rufous Hummer ♂ — l. $3\frac{3}{4}$ & $4\frac{1}{8}$ w. $1\frac{5}{8}$ t. $1\frac{1}{2}$.
731. Am. Dipper ♀* — l. $1\frac{1}{4}$ w. $11\frac{1}{8}$ w. $5\frac{3}{8}$ t. $1\frac{3}{4}$.
732. Rufous Hummer ♂ juv. — l. $3\frac{5}{8}$ & $4\frac{1}{4}$ w. $1\frac{5}{8}$ t. $1\frac{1}{4}$.
733. Black Phoebe ♂ — l. $7\frac{5}{8}$ w. 12 w. $3\frac{13}{16}$ t. $2\frac{3}{8}$.
734. Rufous Hummer ♂ — l. $3\frac{3}{4}$ & $4\frac{1}{8}$ w. $1\frac{5}{8}$ t. $1\frac{1}{4}$.
735. Black Phoebe ♂ — l. $7\frac{3}{8}$ & $11\frac{1}{2}$ w. $3\frac{5}{8}$ t. $3\frac{1}{4}$.
736. Anna's Hummer ♂ — l. $4\frac{1}{8}$ & $4\frac{7}{8}$ w. 2 t. $1\frac{1}{4}$.
737. Nuttall's Woodpecker ♂ — l. $7\frac{3}{4}$ & $13\frac{1}{4}$ w. $4\frac{1}{16}$ t. $2\frac{3}{4}$.
738. Anna's Hummer ♂ — l. $4\frac{3}{16}$ & 5 w. 2 t. $1\frac{1}{4}$.
739. Mourning Dove ♂ — l. $12\frac{1}{4}$ & 18 w. 6 t. 6.

March 22.

Lightly Cloudy. Rained a little in the morning.

March 22.

on Wagon Went across country to Lake Umbagog
to Fitchville. When it began to be cloudy
the ravines they began to roll, and shortly after
they could be seen parading on bushes or fluttering
along the tracks. But inside a half hour they
left the hills and scattered down across
the country and even to the fields this side.
They are exceedingly hard to see in the gloom, and
we can go within 100 feet of them without
flushing them. When there is a flutter in the gloom
and it is gone. Saw 2 the Ravens Kingbird
found completed nests of Mockingbird, Cal. Towhee
and Cal. Thrasher. Saw no Swallow.
Swallow not common this year on Coast.
40. Ash-throated Flycatcher ♂ — L 9. $s = 15\frac{3}{4}$, $w = 5\frac{1}{4}$, $t = 8\frac{7}{8}$.
41. White-throated Sparrow ♂ — L $5\frac{1}{4}$, $s = 8\frac{5}{8}$, $w = 4\frac{3}{4}$, $t = 2\frac{3}{8}$.
42. A. P. Sparrow Goldfinch ♂ — L $4\frac{1}{2}$, $s = 7\frac{3}{4}$, $w = 2\frac{1}{2}$, $t = 1\frac{5}{8}$.

March 24.

Clear Very Warm. Went down to Shoshone Ranch a few minutes this evening. A long lost bird Found. West. Grasshopper Sparrow; flushed him from the edge of a vetile patch, and he flew to a dead weed stalk, but went no farther. Found a Burtch's nest with a Screech Owl's nest and broken Burtch's eggs on the ground beneath. The nest was on a dark thick oak branch, and the Screech Owl had just caught it in grand style.

Saw also Lawrence's Goldfinch, Golden-crown Sparrow.
743. West. Grasshopper Sparrow ♀ — $l-4\frac{3}{4}$ $w-7\frac{7}{8}$ $t-2\frac{7}{8}$ $h-1\frac{1}{2}$

March 25.

Dirty Hazy. Warm. Saw Am. Pipit down to Thompson.

March 26.

Cloudy - Day. A little rain in afternoon. Went out. Went up the arroyo above Devil's Pit this morning. Saw following birds: — Cal. Partridge, Mourning Dove, Turkey Vulture, Desert Sparrowhawk, Red-shafted Flicker, Rufous Hummer, Anna's Hummer, Arkansas Kingbird.

Black Phoebe, Mex. Horned Lark, Cal. Jay, Bullock's Oriole,
Long Hooded Oriole, West. Meadowlark, Brewer's Blackbird,
House Finch, West. Goldfinch, Ark. Goldfinch, Lawrence's Goldfinch,
West. Savanna Sparrow, West. Lark Sparrow, Intermediate Sparrow,
Mexican Sparrow, West. Chipping Sparrow, Lincoln's Sparrow,
Hermann's Song Sparrow, Spurred Towhee, Cal. Towhee,
Cliff Swallow, Violet-green Swallow, Cal. Shrike,
West. Warbler, Vireo (2 in willows), Hutton's Vireo,
Least Vireo (4 in willows), Lutescent Warbler (♂♂ singing),
Audubon's Warbler, Mockingbird, Cal. Thrasher, Vigor's Wren,
House Wren (building), Pallid Wren-tit, Cal. Bush-tit,
Sage-crowned Kinglet, West. Gnatcatcher, Dwarf Hermit Thrush.

Found nest of Bush-tit with 2 eggs; this is
one I found nearly completed of Feb. 29.

and Thrasher's nest completed. Found a

large colony of Brewer's Blackbirds nesting
in an Orange Orchard; some of the nests are
nearly finished. The vireos were singing

in the best, and I found them only by following the notes.
Set. Cal. Shrike $\frac{23}{7}$, laid by some time of

Birds $\frac{2}{6}$ on March 7. Took also Set
House Finch $\frac{2}{4}$, without any markings.

744. West. Gnatcatcher ♂ — $l 4\frac{5}{8}$ s- $6\frac{1}{4}$ w-2 t $2\frac{1}{16}$
745. Parkman's Wren ♂ — $l 5\frac{1}{8}$ s-7 w- $2\frac{1}{4}$ t 2
746. Least Vireo ♂ — $l 4\frac{7}{8}$ s-7 w- $2\frac{1}{4}$ t $2\frac{1}{8}$
747. Least Vireo ♂ — $l 4\frac{3}{4}$ s-7 w- $2\frac{1}{4}$ t $2\frac{1}{16}$
748. West. Whistling Vireo ♂ — $l 5\frac{1}{8}$ s- $8\frac{1}{2}$ w- $2\frac{13}{16}$ t $2\frac{1}{16}$
749. Lincoln's Sparrow ♂ — $l 5\frac{5}{8}$ s-8 w- $2\frac{5}{8}$ t $2\frac{1}{4}$
750. Heermann's Song Sparrow ♂ — $l 5\frac{7}{8}$ s-8 w- $2\frac{1}{2}$ t $2\frac{1}{2}$
751. Dwarf Hermit Thrush ♂ — $l 6\frac{5}{8}$ s- $10\frac{2}{8}$ w- $3\frac{9}{16}$ t $2\frac{9}{16}$
752. Brewer's Blackbird ♂ — $l 9\frac{3}{8}$ s-16 w- $5\frac{1}{4}$ t $5\frac{13}{16}$
753. Cal. Jay ♂ — $l 11\frac{3}{4}$ s- $15\frac{1}{4}$ w- $4\frac{7}{8}$ t $5\frac{1}{2}$
754. Arkansas Kingbird ♂ — $l 8\frac{1}{8}$ s-16 w- $5\frac{1}{8}$ t $3\frac{5}{8}$

March 27

Cloudy all day. West wind. Went down to
Akers this morning from Oak Hill to Shorb's.
Saw following birds: — Mourning Dove,
Turkey Vulture, Cooper's Hawk, Desert Sparrow Hawk,
Am. Barn Owl, Nuttall's Woodpecker, Cal. Woodpecker,

Red-shafted Flicker; Anna's Hummer, Ark. Kingbird,
Black Phoebe, Cal. Crow, West. Meadow-lark,
Lawrence's Blackbird, Ariz. Hooded Oriole, Bullock's Oriole,
L. Purple Finch, House Finch, West. Goldfinch,
Ark. Goldfinch, Lawrence's Goldfinch, Gambel's Sparrow,
West. Lark Sparrow, West. Chipping Sparrow, Cal. Towhee,
Intermediate Sparrow, Thumber's Junco, Spurred Towhee,
Lawrence's Song Sparrow, Cliff Swallow, Farm Swallow,
Violet-green Swallow, Cal. Shrike, West. Warbling Vireo,
Atton's Vireo, Lutescent Warbler, Audubon's Warbler,
West. Yellowthroat, Mockingbird, Parkman's Wren,
Rain Titmouse, Cal. Bush-tit, Ruby-crowned Kinglet,
West. Gnatcatcher, Dwarf Hermit Thrush, & West. Bluebird.

Saw just two Anna's Hummers, going north-west.
A large flock of Sand-bill Cranes going north-west.
at morning Dove's Nest with one fresh egg in
an open of very long grass. Hawk's nest with
evidently about the same. Found
Thomas Hummer's nest with 2 fresh eggs. Dist

unfortunately shot the bird just as she was
lighting it, and broke the eggs; the nest was
18 ft. up in oak in pond in Wilson's Pasture.
Saw a Plain Tit carrying feathers into a hole in
an oak. Will see it later.

755. Bullock's Oriole ♀ — $l 7\frac{3}{8}$ $w 11\frac{5}{8}$ $a 3\frac{3}{4}$ $t 2\frac{7}{8}$
 756. Barn Swallow ♀ — $l 6\frac{5}{8}$ $w 12\frac{1}{4}$ $a 4\frac{5}{8}$ $t 3\frac{7}{16}$
 757. Dwarf Hermit Thrush ♂ — $l 6\frac{3}{4}$ $w 11$ $a 3\frac{5}{8}$ $t 2\frac{7}{8}$
 758. Audubon's Warbler ♂ — $l 5\frac{1}{2}$ $w 9\frac{3}{8}$ $a 3\frac{1}{8}$ $t 2\frac{3}{8}$
 759. Audubon's Warbler ♂ — $l 5\frac{3}{8}$ $w 9\frac{1}{8}$ $a 3$ $t 2\frac{1}{4}$
 760. West. Warbling Vireo ♂ — $l 5\frac{1}{4}$ $w 8\frac{1}{2}$ $a 2\frac{3}{4}$ $t 2\frac{1}{16}$
 761. Anna's Hummer ♀ — $l 3\frac{7}{8}$ $w 4\frac{7}{8}$ $a 2$ $t 1\frac{1}{8}$
 762. Anna's Hummer ♀ — $l 3\frac{7}{8}$ $w 4\frac{7}{8}$ $a 2$ $t 1\frac{1}{16}$
 763. Nuttall's Woodpecker ♀ — $l 7\frac{1}{8}$ $w 13$ $a 4$ $t 2\frac{9}{11}$
 764. Cal. Woodpecker ♂ — $l 9\frac{3}{8}$ $w 17\frac{1}{2}$ $a 5\frac{1}{2}$ $t 3\frac{7}{8}$

March 28.

Cloudy. Rained all night, and part of the day.
Went up across the Altadena fields today.
Saw following birds; — Mourning Doves

Red Key Vulture, Sharp-shinned Hawk, Desert Sparrow Hawk,
 Red-shafted Flicker, Anna's Hummer, Arkansas Kingbird,
 Black Phoebe, West. House Lark, West. Meadow-lark,
 Indigo-bird, Brewer's Blackbird, House Finch,
 St. Goldfinch, Ark. Goldfinch, Lawrence's Goldfinch,
 W. Savanna Sparrow, West. Lark Sparrow, Intermediate Sparrow,
 W. Chipping Sparrow, Thrasher's Junco, Heron's Song Sparrow,
 L. Towhee, Violet-green Swallow, Cal. Shrike, Audubon's Warbler,
 Mockingbird, Ch. Lark, West. Robin, & West. Bluebird.
 Goldfinches, Sparrows, and Audubon's Warblers, were

in flocks, among the uncultivated, weedy, Poor Orchards.

65. West Chipping Sparrow ♂ — $l-5\frac{1}{2}$ o- $8\frac{5}{8}$ w- $2\frac{7}{8}$ t- $2\frac{3}{4}$
 66. " ♀ — $l-5\frac{1}{4}$ o-8 w- $2\frac{1}{2}$ t- $2\frac{1}{4}$
 7. " ♂ — $l-5\frac{5}{8}$ o-9 w- $2\frac{15}{16}$ t- $2\frac{1}{2}$
 8. West. Savanna Sparrow ♀ — $l-5\frac{1}{2}$ o- $8\frac{3}{4}$ w- $2\frac{3}{4}$ t- $1\frac{7}{8}$
 9. West. Lark Sparrow ♂ — $l-7$ o-11 w- $3\frac{1}{16}$ t- $2\frac{1}{16}$
 10. Ark. Kingbird ♂ — $l-9$ o- $15\frac{3}{4}$ w-5 t- $3\frac{3}{4}$
 11. West. Bluebird ♀ — $l-6\frac{3}{4}$ o- $12\frac{1}{4}$ w- $4\frac{1}{8}$ t- $2\frac{5}{8}$
 12. Thrasher's Junco ♀ — $l-5\frac{3}{8}$ o- $8\frac{3}{8}$ w- $2\frac{3}{8}$ t- $2\frac{3}{8}$
 13. Lawrence's Goldfinch ♂ — $l-4\frac{7}{8}$ o- $8\frac{7}{8}$ w- $2\frac{5}{8}$ t-2
 14. Arkansas Goldfinch ♂ — $l-4\frac{3}{8}$ o- $7\frac{7}{8}$ w- $2\frac{3}{8}$ t- $1\frac{3}{4}$
 15. " ♀ — $l-4\frac{1}{8}$ o- $7\frac{1}{8}$ w- $2\frac{1}{8}$ t- $1\frac{3}{4}$

March 29.

Partially Cloudy. Cool.

March 30

Clear. Breeze. Went down to Short's Ranch
and Wilson's Puncture today. Saw following birds:—
Cal. Partridge, Mourning Dove, Turkey Vulture, Cooper's Hawk,
Sharp-shinned Hawk, Desert Sparrow Hawk, Am. Barn Owl,
Cal. Woodpecker, Red-shafted Flicker, Anna's Hummingbird,
Rufous Hummer, Arkansas Kingbird, Black Phoebe,
West. Flycatcher (1), Red-winged Blackbird, West. Meadowlark,
Ariz. Hooded Oriole, Bullock's Oriole, Brewer's Blackbird,
Cal. Purple Finch, House Finch, West. Goldfinch, Ark. Goldfinch,
Lawrence's Goldfinch, West. Lark Sparrow, Eastern Lark Sparrow,
Golden-crowned Sparrow, West. Chipping Sparrow, Thicket's Junco,
Hewson's Song Sparrow, Lincoln's Sparrow, Spurred Towhee,
Cal. Towhee, Black-headed Grosbeak (1), Cliff Swallow,
Violet-green Swallow, Cal. Shrike, West. Warbling Vireo,
Least Vireo, Hutton's Vireo, Lutescent Warbler,
Audubon's Warbler, West. Yellowthroat, Pileolated Warbler (2),
Mockingbird, Parkman's Wren, Plain Tit, Cal. Parakeet,

Ruby-crowned Kinglet, West. Flycatcher, Dwarf Hermit Thrush
Birds were abundant. Found Anna's Hummer
building; took set of Mourning Dove.

76. West Flycatcher ♀ — $l 5\frac{1}{4}$ $w 7\frac{3}{4}$ $t 2\frac{1}{2}$ $+ 2\frac{1}{4}$
77. Pileolated Warbler ♂ — $l 4\frac{5}{8}$ $w 6\frac{5}{8}$ $t 2\frac{1}{8}$ $+ 1\frac{7}{8}$
78. West. Yellowthroat ♀ — $l 5$ $w 6\frac{5}{8}$ $t 2\frac{1}{8}$ $+ 2$
79. Cal. Purple Finch ♂ — $l 6$ $w 9\frac{3}{4}$ $t 3\frac{1}{4}$ $+ 2\frac{5}{16}$
80. Cal. Purple Finch ♀ — $l 6$ $w 9\frac{5}{8}$ $t 3\frac{1}{8}$ $+ 2\frac{3}{16}$
81. Cal. Purple Finch ♂ — $l 6$ $w 10$ $t 3\frac{1}{4}$ $+ 2\frac{1}{2}$
82. Lincoln's Sparrow ♀ — $l 5\frac{3}{8}$ $w 7\frac{3}{4}$ $t 2\frac{1}{2}$ $+ 2\frac{3}{16}$
83. House Finch ♂ — $l 6$ $w 9\frac{5}{8}$ $t 3$ $+ 2\frac{7}{16}$
84. West. Chipping Sparrow ♂ — $l 5\frac{3}{4}$ $w 9$ $t 2\frac{7}{8}$ $+ 2\frac{7}{16}$
85. Audubon's Warbler ♂ — $l 6$ $w 9\frac{3}{4}$ $t 3\frac{1}{4}$ $+ 2\frac{7}{16}$

March 31.

Mar. Went up to canyon below Devil's Gate.

Following birds: — Mourning Dove, Turkey Vulture,
Red-tail, Desert Sparrow Hawk, Nuttall's Poorwill,
even Nighthawk⁽⁴⁾, Rufous Hummer, Anna's Hummer,
Common Kingbird, Black Phoebe, West. Flycatcher,

Mex. Horned Lark, Brewer's Blackbird, West. Meadowlark,
Cal. Horned Oriole, Bullock's Oriole, House Finch,
Arkansas Goldfinch, Intermediate Sparrow, W. Goldfinch,
West. Chipping Sparrow, Hummer's Song Sparrow, Spurred Towhee,
Cal. Towhee, Cliff Swallow, Long-winged Swallow ⁽⁴⁾, Cal. Shrike,
Violet-green Swallow, Least Vireo, Audubon's Warbler,
West. Yellowthroat, Lutescent Warbler, Mockingbird,
Cal. Thrasher, Pallid Wren-tit, Cal. Bush-tit, West. Gnatcatcher,
Dwarf Hermit Thrush, And West. Bluebird.

The West. Yellowthroats are beginning to migrate,
and are in the brush anywhere. Swallows
are here by the thousands. The Hummers
in our yard have left the nest, making total
time occupied in building, laying, incubating,
and rearing: 49 days. The eggs in the other
Hummer's nest have not yet hatched!

Saw nine birds on the wing!

The Downy Woodpecker and Nighthawks were on the
lot edge early in the morning.

86. Rufous Hummer ♂ — $l-3\frac{3}{4}$ $s-4\frac{1}{8}$ $w-1\frac{5}{8}$ $t-1\frac{1}{8}$
87. Brewer's Sparrow ♂ — $l-5\frac{1}{2}$ $s-7\frac{3}{4}$ $w-2\frac{1}{2}$ $t-2\frac{3}{8}$
88. Pallid Kinglet ♀ — $l-6\frac{1}{4}$ $s-7\frac{1}{4}$ $w-2\frac{3}{8}$ $t-3\frac{1}{4}$
89. Lutescent Warbler ♂ — $l-5$ $s-7\frac{1}{4}$ $w-2\frac{3}{8}$ $t-1\frac{3}{4}$
90. Least Vireo ♂ — $l-5\frac{1}{8}$ $s-7\frac{1}{4}$ $w-2\frac{1}{4}$ $t-2\frac{1}{8}$
91. Foxglove ♂ — $l-7\frac{7}{8}$ $s-11\frac{1}{4}$ $w-3\frac{5}{8}$ $t-3\frac{5}{8}$
92. Texan Nighthawk ♂ — $l-8\frac{7}{8}$ $s-21$ $w-7\frac{1}{8}$ $t-4\frac{1}{2}$
93. Texan Nighthawk ♂ — $l-8\frac{7}{8}$ $s-21\frac{1}{2}$ $w-7\frac{1}{8}$ $t-4\frac{1}{2}$
94. Cal. Thrasher ♀ — $l-11\frac{1}{2}$ $s-12\frac{1}{4}$ $w-5\frac{3}{4}$ $t-4\frac{3}{4}$
95. Cal. Thrasher ♂ — $l-11\frac{3}{4}$ $s-12\frac{1}{4}$ $w-5\frac{13}{16}$ $t-4\frac{1}{4}$
96. Say's-winged Swallow ♂ — $l-5\frac{3}{4}$ $s-13$ $w-4\frac{5}{8}$ $t-2\frac{1}{8}$
97. Cliff Swallow ♂ — $l-5\frac{3}{4}$ $s-12$ $w-4\frac{1}{4}$ $t-2$
98. Cliff Swallow ♂ — $l-5\frac{3}{4}$ $s-11\frac{5}{8}$ $w-4\frac{1}{8}$ $t-2$
99. Violet-green Swallow ♂ — $l-5\frac{1}{4}$ $s-12$ $w-4\frac{1}{2}$ $t-1\frac{3}{4}$
100. Violet-green Swallow ♀ — $l-5\frac{1}{4}$ $s-11\frac{5}{8}$ $w-4\frac{5}{16}$ $t-1\frac{13}{16}$

April 1.

San. Wm. Went fishing up range San
Joa. as far as Barbers. Got 15 fish.

Saw large numbers of H. T. Flycatchers

Paleolated Warbler, 2 Thick-billed Sparrows,
Least Vireo, West. Warbling Vireo, Lutescent
Warblers. Also 10 Black-throated Gray Warblers

Birds are very numerous in the canon.

801. Thick-billed Sparrow ♂ — $1-7\frac{1}{2}$ · $0-10\frac{5}{8}$ · $2-3\frac{1}{2}$ ± $3\frac{1}{2}$
802. Rufous Hummer ♂ — $1-3\frac{3}{4}$ · $0-4\frac{1}{8}$ · $1-1\frac{5}{8}$ ± $1\frac{3}{16}$
803. Lutescent Warbler ♂ — $1-5$ · $0-7\frac{3}{4}$ · $2-2\frac{1}{2}$ ± 2
804. Lutescent Warbler ♂ — $1-4\frac{7}{8}$ · $0-7\frac{1}{2}$ · $2-2\frac{3}{4}$ ± $1\frac{3}{4}$
805. Black-throated Gray Warbler ♂ — $1-5\frac{1}{4}$ · $0-7\frac{1}{8}$ · $2-2\frac{9}{16}$ ± 2
806. Black-throated Gray Warbler ♂ — $1-5\frac{1}{4}$ · $0-7\frac{1}{8}$ · $2-2\frac{9}{16}$ ± 2

April 2.

Clear. Warm. Black-headed Grosbeak on the place.
An egg in the Red Hummer's nest has hatched;
incubation this time 15 or 16 days. Went

down to the canyon a few minutes this noon.

It was very warm, and birds were quiet.

Saw Paleolated Warbler, but none Ruby-cr. Kinglets.

807. West. Warbling Vireo ♂ — $1-5\frac{3}{8}$ · $0-8\frac{5}{8}$ · $2-2\frac{3}{4}$ ± 2
808. Lincoln's Sparrow ♂ — $1-2\frac{1}{2}$ · $0-8\frac{1}{4}$ · $1-1$ ± 2
809. Lincoln's Sparrow ♀ — $1-6$ · $0-7\frac{3}{4}$ · $2-2\frac{1}{2}$ ± 2

April 3.

Clear. Warm. Saw a Costa's Hummingbird about
a peach blossom on the place. 7 or 8 other
in the Hummer's nest had hatched.

April 4.

20
Foggy in the morning. Hazy. Went up Drago &
Dead Man's Canon. Saw following birds:—
Elley Partridge, Mourning Dove, Turkey Vulture,
White-tailed, Desert Sparrow Hawk, Nuttall's Woodpecker,
Ash-throated Flicker, Texas Nighthawk, White-throated Swift,
Four Hummer, Anna's Hummer, Ar. Kansas Kingbird,
Black Phoebe, West. Flycatcher, Mex. Horned Lark,
Song, West. Meadowlark, Ariz. Hooded Oriole,
Yellow-black Oriole, Brewer's Blackbird, House Finch,
R. Goldfinch, Lawrence's Goldfinch, Cal. Towhee,
Red-back Sparrow, Golden-crowned Sparrow, Spurred Towhee,
Intermediate Sparrow, West. Chipping Sparrow,
Larkspur Junco, Hermann's Song Sparrow, Lincoln's Sparrow,
Scale Bunting ⁽¹⁾, Cliff Swallow, Violet-green Swallow,
Rufous-winged Swallow, Cal. Shrike, Milton's Wren,

Wash. Warbling Vireo, Cassin's Vireo,⁽¹⁾ Least Vireo,
Calaveras Warbler,⁽¹⁾ Lutescent Warbler, Audubon's Warbler,
Black-throated Gray Warbler, Pileolated Warbler,
Macgillivray's Warbler,⁽⁴⁾ Mockingbird, Cal. Thrasher,
Vigors' Wren, Parkman's Wren, Plain Titmouse,
Chilled Wren-tit, Cal. Bush-tit, Ruby-crowned Kinglet, &
Swamp Hermit Thrush. Took a Sat. Turkey

Just before 1/2; considerably incubated; laid on slight wing
rested under an overhanging rock in bottom of
brushy ravine. There was only one way the bird
could fly out, on account of the thick growth of
brush on three other sides, and that was straight
out toward the mouth of the ravine. I saw the
fly out once and in on excited manner, and
both birds circled close around overhead while
I was there. Saw just one 5-legged scuttling
in the brush on the back of the canyon. Heard
no characteristic note before I saw it. Found
a Hutton's Vireo's nest with one egg and

newly-hatched young ones; Nest 8/10 in a small
sapling, in bed of Canon. The ♀
Tussock Wren which I took, contained in the
nest, a full sized egg, which would probably
have been laid the next morning; The shell
was not yet formed; the bird was in some
reeds in the bottom of the canon, and there
was probably a nest nearby.

New Bird! Macgillivray's Warbler! They
eat and sound much like yellowthroats, though
more secretive and shy. They were in the
underbrush in the canons. The Black-throated
Warblers are singing all along the canons
and will probably breed early. West. Flycatcher
is singing. The ♀ Plain Titmouse had
evidently laid a full set. Found
nest with 12 in all stages of incubation
contained 4 eggs and another 2 eggs.
Saw thousands of swallows circling

over the reservoir at dusk; also shot
a dozen Texas Nighthawks

810. Lutescent Warbler ♀ — $l 4\frac{7}{8}$, $w 7$, $u 2\frac{1}{8}$, $t 1\frac{13}{16}$.
811. Lutescent Warbler ♂ — $l 5$, $w 7\frac{3}{8}$, $u 2\frac{3}{8}$, $t 1\frac{7}{8}$.
812. Mayhew's Warbler ♂ — $l 5\frac{3}{8}$, $w 7\frac{3}{8}$, $u 2\frac{5}{16}$, $t 2\frac{1}{8}$.
813. Mayhew's Warbler ♂ — $l 5\frac{1}{2}$, $w 7\frac{3}{4}$, $u 2\frac{7}{16}$, $t 2\frac{3}{16}$.
814. Calaveras Warbler ♂ — $l 5$, $w 7\frac{5}{8}$, $u 2\frac{1}{2}$, $t 1\frac{15}{16}$.
815. Black-thr. Gray Warbler ♂ — $l 5\frac{1}{4}$, $w 7\frac{7}{8}$, $u 2\frac{5}{8}$, $t 2\frac{1}{8}$.
816. Bl. & White-thr. Gray Warbler ♂ — $l 5\frac{1}{8}$, $w 7\frac{7}{8}$, $u 2\frac{1}{2}$, $t 2\frac{1}{16}$.
817. Cassin's Vireo ♂ — $l 5\frac{1}{2}$, $w 9\frac{1}{8}$, $u 2\frac{7}{8}$, $t 2$.
818. West. Warbling Vireo ♀ — $l 5\frac{1}{4}$, $w 8\frac{3}{8}$, $u 2\frac{5}{8}$, $t 1\frac{2}{8}$.
819. West. Warbling Vireo ♂ — $l 5\frac{1}{2}$, $w 8\frac{5}{8}$, $u 2\frac{13}{16}$, $t 2\frac{1}{8}$.
820. Plain Titmouse ♀ — $l 5\frac{5}{8}$, $w 8\frac{3}{8}$, $u 2\frac{5}{8}$, $t 2\frac{7}{16}$.
821. Lincoln's Sparrow ♀ — $l 5\frac{5}{8}$, $w 8$, $u 2\frac{1}{2}$, $t 2\frac{1}{4}$.
822. Golden-crowned Sparrow ♂ — $l 7\frac{1}{2}$, $w 10\frac{1}{2}$, $u 3\frac{5}{16}$, $t 3\frac{5}{16}$.
823. Throated Junco ♀ — $l 6$, $w 9$, $u 3$, $t 2\frac{1}{2}$.
824. Dwarf Hermit Thrush ♂ — $l 6\frac{2}{8}$, $w 10\frac{3}{4}$, $u 3\frac{1}{2}$, $t 2\frac{3}{4}$.
825. Dwarf Hermit Thrush ♀ — $l 6\frac{7}{8}$, $w 10\frac{3}{4}$, $u 3\frac{1}{2}$, $t 2\frac{5}{8}$.
826. Texas Nighthawk ♂ — $l 9\frac{3}{8}$, $w 21\frac{1}{4}$, $u 7\frac{5}{8}$, $t 4\frac{5}{8}$.
827. Violet-green Swallow ♀ — $l 5$, $w 11\frac{1}{2}$, $u 4\frac{5}{8}$, $t 1\frac{3}{4}$.

April 5.

Lea. Warm. Hummer are very abundant
around the blossoming orange trees.

April 6.

Lea. Warm. Went out to Yolo Street
canyon a few minutes this evening.

28. Cliff Swallow ♀ — $l = 5\frac{1}{2}$ $w = 11\frac{1}{2}$ $c = 4\frac{1}{8}$ $t = 1\frac{5}{8}$

29. Cliff Swallow ♀ — $l = 5\frac{1}{2}$ $w = 11\frac{5}{8}$ $c = 4\frac{1}{8}$ $t = 2\frac{1}{16}$

30. Violet-green Swallow ♂ — $l = 5\frac{3}{8}$ $w = 12\frac{1}{4}$ $c = 4\frac{3}{4}$ $t = 1\frac{1}{8}$

31. Violet-green Swallow ♂ — $l = 5\frac{1}{8}$ $w = 12\frac{1}{2}$ $c = 4\frac{7}{8}$ $t = 1\frac{3}{8}$

April 7.

ggg - to morning. Pleasant. First West.
Yellow Warbler this morning down on the

bank. A large flock of Doves seen this morning
several more. Singing Sparrows in the

grass. Mourning Dove seen
in the canyon.

Where are nearly all gone. But Scissortails
are common and commoner than they

are. First ♀ today.

832. Macgillivray's Warbler δ — $l 5\frac{3}{8}$ $w 7\frac{1}{2}$ $a 2\frac{3}{8}$ $t 2\frac{1}{8}$
 833. Macgillivray's Warbler δ — $l 5\frac{3}{8}$ $w 7\frac{1}{2}$ $a 2\frac{3}{8}$ $t 2\frac{1}{8}$
 834. West Yellowthroat δ — $l 5\frac{1}{4}$ $w 7$ $a 2\frac{3}{16}$ $t 2$
 835. Violet green Swallow δ — $l 5\frac{1}{4}$ $w 12$ $a 4\frac{5}{8}$ $t 1\frac{7}{8}$
 836. Texas Nighthawk δ — $l 8\frac{1}{8}$ $w 22$ $a 7\frac{1}{2}$ $t 4\frac{1}{2}$
 837. Rufous Hummer δ — $l 3\frac{3}{8}$ $w 4\frac{1}{2}$ $a 1\frac{3}{4}$ $t 1\frac{1}{8}$
 838. Rufous Hummer δ — $l 3\frac{3}{4}$ $w 4\frac{1}{4}$ $a 1\frac{5}{8}$ $t 1\frac{1}{8}$

April 8.

Clear. Pleasant. — Saw West Yellow Warbler and
 Black headed Grosbeak on the plain today.

April 9.

Foggy in morning. Partially Cloudy. Light breeze
 West Wind. Went down to arrange below
 Devil's Gate again this evening. Birds were
 in general very quiet.

839. West. Gnatcatcher δ — $l 4\frac{3}{4}$ $w 6\frac{3}{8}$ $a 2$ $t 2\frac{1}{8}$
 840. West. Gnatcatcher δ — $l 4\frac{3}{4}$ $w 6\frac{1}{4}$ $a 2$ $t 2$
 841. West. Gnatcatcher δ — $l 4\frac{3}{4}$ $w 6\frac{1}{4}$ $a 1\frac{15}{16}$ $t 2\frac{1}{8}$
 842. Least Vireo δ — $l 5$ $w 6\frac{1}{8}$ $a 2\frac{1}{8}$ $t 2\frac{1}{16}$
 843. Texas Nighthawk δ — $l 8\frac{1}{8}$ $w 21$ $a 7\frac{1}{2}$ $t 4\frac{1}{2}$
 844. Rufous Hummer δ — $l 3\frac{7}{8}$ $w 4\frac{1}{4}$ $a 1\frac{11}{16}$ $t 1\frac{1}{8}$

April 10, 1896.

Had Cold West Wind. Partially Cloudy. Slight Rain.

April 11.

Fair. Slight Frost in morning. Cool. Went up

to Lower Millard's & Chisago Seco Canons, and across
the foot-hills. Saw following birds:—

up-shinned Hawk, Cal. Shrike, House Finch, Mocking Bird,
Common Dove, Valley Partridge, West. Flycatcher,

Mountain Wren, West. Yellow Warbler, Black Phoebe, Cal. Towhee,
R. Goldfinch, Heermann's Song Sparrow, Golden-crown Sparrow,

Lincoln's Sparrow, Spurred Towhee, Anna's Humming Bird,

Star's Hummer, Rufous Hummer, Audubon's Warbler,

Verreaux Warbler, Black-throated Gray Warbler, West. Blue,

Tessent Warbler, West. Woodling Vireo, Hutton's Vireo,

Myiozetetes Thrush, West. Lark Sparrow, Three-belt Junco,

Western Lark, West. Meadow Lark, Black-chin Hummer (3),

Wren's Blackbird, Ariz. Hooded Oriole, Cal. Bush-tit,

W. Chipping Sparrow, R. Wren-tit, Black-headed Grosbeak,

Lincoln's Wren, White-throated Swift, West. Bluebird.

W. Swallow, Cal. Jay, Cal. Thrasher, Turkey Buzzard,

Lizard Wren, West. Red tail, Cooper's Hawk, Cassin's Wren,
Lawrence's Goldfinch, Desert Sparrow Hawk, Canon Wren,
Pileolated Warbler, Mangillivanga Warbler, Cal. Purple Finch,
Hummer's Flycatcher (3), White Throat Swallow, Bullock's Oriole,
Lutescent Sparrow, West. Savanna Sparrow & Chukar Kingbird

Birds are increasingly abundant, especially the warblers.
The Hummer's Flycatchers had no notes. Found
a Lizard Wren's nest, it was in a hole under a tuft
a year in the bank of a ravine. It was
composed of fine fibres & grasses, with large
quantities of Rabbit fur. The hollow was about
 $\frac{1}{2}$ inches high, & 3 inches deep from the entrance.
Saw the bird singing near by. Found

a Canon Wren's nest nearly completed in the
roof of a tunnel. Found Bush-tit's nest with 4 young

845. Audubon's Warbler. ♂ — $l-5\frac{5}{8}$ — $w-7\frac{1}{2}$ — $h-3\frac{1}{16}$ — $t-2\frac{3}{16}$

846. Black-throated Gray Warbler, ♀ — $l-5\frac{1}{8}$ — $w-7\frac{3}{4}$ — $h-2\frac{3}{4}$ — $t-2$

847 " " ♂ — $l-5\frac{1}{8}$ — $w-7\frac{7}{8}$ — $h-2\frac{1}{2}$ — $t-2$

848 " " ♂ — $l-5\frac{1}{8}$ — $w-7\frac{11}{16}$ — $h-2\frac{1}{2}$ — $t-2$

9. Macgillivray's Warbler ♀ — $l-5\frac{1}{4}$, $s-7$, $w-2\frac{1}{4}$, $t-2$.

10. " " ♂ — $l-5\frac{3}{8}$, $s-7\frac{1}{2}$, $w-2\frac{7}{16}$, $t-2\frac{1}{8}$.

11. " " ♂ — $l-5\frac{5}{8}$, $s-7\frac{3}{8}$, $w-2\frac{3}{8}$, $t-2\frac{1}{8}$.

12. " " ♂ — $l-5\frac{3}{8}$, $s-7\frac{3}{8}$, $w-2\frac{3}{8}$, $t-2\frac{1}{8}$.

13. Dilated Warbler ♂ — $l-5$, $s-6\frac{3}{4}$, $w-2\frac{1}{4}$, $t-2\frac{1}{8}$.

14. Calaveras Warbler ♂ — $l-5$, $s-7\frac{1}{2}$, $w-2\frac{1}{2}$, $t-1\frac{7}{8}$.

15. " " ♂ — $l-5$, $s-7\frac{3}{4}$, $w-2\frac{1}{2}$, $t-1\frac{7}{8}$.

16. Least Vireo ♂ — $l-5\frac{1}{4}$, $s-7\frac{3}{8}$, $w-2\frac{1}{4}$, $t-2\frac{1}{4}$.

17. Cassin's Vireo ♀ — $l-5\frac{1}{2}$, $s-7$, $w-2\frac{15}{16}$, $t-2$.

18. Hammond's Flycatcher ♀ — $l-5\frac{3}{8}$, $s-8\frac{1}{8}$, $w-2\frac{5}{8}$, $t-2\frac{1}{4}$.

19. " " ♀ — $l-5\frac{1}{2}$, $s-8\frac{1}{2}$, $w-2\frac{11}{16}$, $t-2\frac{1}{4}$.

20. " " ♂ — $l-5\frac{5}{8}$, $s-9$, $w-2\frac{7}{8}$, $t-2\frac{3}{8}$.

21. West. Flycatcher ♂ — $l-5\frac{3}{4}$, $s-8\frac{1}{2}$, $w-2\frac{11}{16}$, $t-2\frac{3}{8}$.

22. " " ♀ — $l-5\frac{3}{4}$, $s-8\frac{3}{4}$, $w-2\frac{3}{4}$, $t-2\frac{5}{8}$.

23. " " ♀ (?) — $l-5\frac{3}{4}$, $s-8$, $w-2\frac{1}{2}$, $t-2\frac{3}{8}$.

24. " " ♀ — $l-5\frac{5}{8}$, $s-8$, $w-2\frac{1}{2}$, $t-2\frac{1}{4}$.

25. Vigor's Wren ♂ — $l-5\frac{1}{2}$, $s-7$, $w-2\frac{1}{8}$, $t-2\frac{1}{4}$.

26. West. Tanager Swallow ♀ — $l-5$, $s-11\frac{3}{4}$, $w-4\frac{1}{8}$, $t-1\frac{3}{4}$.

27. West. Savanna Sparrow ♀ — $l-5\frac{3}{8}$, $s-8\frac{5}{8}$, $w-2\frac{5}{8}$, $t-1\frac{1}{8}$.

April 12.

Clear Pleasant

April 13

Clear. Warm. Saw a pair of California birds on place.
Went down to Oak Knoll this evening. Took
a fine set of nine Plain Titmouse; Nest
placed as usual, but quite bulky and solid to fill
the proper dimensions the cavity which it
occupied. Saw large numbers of West.
Yellow Warblers & Cal. Purple Finches; also
Logan's Bunting, Black-crown Night-heron, etc.

April 14.

Foggy in morning. Cloudy nearly all day. Went
up to the arroyo below Devil's Gate this
evening. Took two sets of 5 Cal. Quail,
and 1 set of 3 Cal. Thrasher. Saw Logan's Bunting,
Audubon's Warbler, Macgillivray's Warbler, Am. Pipit
(a large flock settled in a field), Fern Night
Black-headed Grosbeak, Ark. Kingbird, Indigo
Belted Sparrow, Golden-crowned Sparrow, etc.

8. Bullock's Oriole σ — $l-7\frac{3}{4}$ — 12 , $w-3\frac{7}{8}$, $t-3\frac{5}{16}$.
 7. Black-headed Grosbeak σ — $l-7\frac{5}{8}$, $w-11\frac{7}{8}$, $w-3\frac{7}{8}$, $t-3$.
 6. Dwarf Hermit Thrush σ — $l-6\frac{1}{2}$, $w-9\frac{7}{8}$, $w-3\frac{3}{8}$, $t-2\frac{5}{8}$.
 5. Violet-green Swallow σ — $l-5$, $w-11\frac{3}{4}$, $w-4\frac{1}{2}$, $t-1\frac{5}{4}$.
 4. Costa's Hummer σ — $l-3\frac{1}{2}$, $w-4\frac{1}{2}$, $w-1\frac{13}{16}$, $t-1\frac{15}{16}$.
 3. Costa's Hummer σ — $l-3\frac{1}{2}$, $w-4\frac{5}{16}$, $w-1\frac{13}{16}$, $t-1\frac{15}{16}$.
 2. Rufous Hummer σ — $l-3\frac{3}{4}$, $w-4\frac{1}{8}$, $w-1\frac{5}{8}$, $t-1\frac{1}{8}$.

April 15.

egg in morning. Saw on place Pileolated Warbler,
 & Ruby-crowned Kinglet.

April 16.

Lightly Cloudy. Heavy cold wet wind.

April 17.

Clear Pleasant. Noon — Have come to the
 mouth of the Big Tujunga Canon this forenoon
 as a pair of West. Redtails. Also Lazuli
Indigo Sparrows, Magnificolors, Warblers, &c.
 in the brush. Found set of Two Thrushes
 & a single unt egg in another set.

- Use 3 half grown young *Thurstonia* nest.
 875. Bell's Sparrow ♂ — $w = 2\frac{3}{4}$, $t = 2\frac{3}{4}$.
 876. Macgillivray's Warbler ♂ — $l = 5\frac{3}{8}$, $w = 7\frac{1}{2}$, $t = 2\frac{7}{16}$, $c = 2\frac{5}{8}$.
 877. Macgillivray's Warbler ♂ — $l = 5\frac{3}{8}$, $w = 7\frac{3}{8}$, $t = 2\frac{3}{8}$, $c = 2\frac{1}{4}$.
 Camped this evening down in the Tejonja Wash.
 Found New Bird, Black^{chinned} Throated Sparrow. It
 was alone in the bush and had a low note like
 a Whippoorwill.

April 18 & 19. (Sightings of
 numerous in the Wash and much along the
 San Bernardino Wash here. Saw following
 birds: — Valley Partridge (abundant; all contained in
 egg ready to be laid), Mourning Dove (common
 along the water), Turkey Vulture, Sharp-shinned Hawk (1),
 Cooper's Hawk (2), West. Red-tail (5), Summer Yellow
 Billed Sparrow Hawk (common. No eggs yet. One
 had a nestling with one half grown chick in it).
 Red-shouldered Hawk (a ♀ contained a fully formed egg).
 Belted Kingfisher (2), Red-shafted Flicker.

White-throated Swifts; Black-chin, Cactus, Hummer, and
four Hummers; Red-throated Flycatcher,
Red-shafted, Ash. Kingbird, West. Flycatcher,
Night (2) Flycatcher (2), Woodhouse's Wren, Cal. Jay,
Mex. Parula, Red-winged Blackbird, West. Meadowlark,
W. Wooded Oriole, Bullock's Oriole, House Finch (found
nest, containing 4 eggs. Built in a round bay window
I surrounded on all sides but one, with the
window closed), Ark. Goldfinch, West. Snow Sparrow,
West. Lark Sparrow, Intermediate Sparrow, Pell's Sparrow,
Ark. Sparrow, Black-chinned Sparrow.
New Bird. Saw 3 in brush. Note and actions
not like Chipping Sparrow), Reynolds's Sparrow.
Saw 2 in brush; a pair shot would not build
side of tree (not over 10'), Heermann's Song Sparrow,
saw 2 in brush (Saw 1), Cal. Towhee, Song Sparrow,
Red-headed Grosbeak, Louisiana Tanager (1),
off Sanborn, Pigeon, Pigeon, Sanborn, Pigeon, Pigeon,
(Shrike (2 nests with nearly fledged young),

West. Woodpecker (1), Cassin's (1), Ant. Wren
(Several in willows along Tujunga Creek), West. Gt. Blue
Lett. Wren, West. Yellow Wren, Lutescent Wren,
Macgillivray's Wren, West. Yellowthroat, Phoebe Wren,
Cal. Thrasher (1) with half grown young, also 1st & 2nd
nest eggs), Ant. Wren (Nest empty & quiet. Could not
shoot any. Found nest with 4 incubated eggs and old
bird dead on them. Took 4 sets off and out of 3),
Vigors Wren, Parker's Wren, Golden Wren, Cal. Bush-tit,
Black-tailed Gnatcatcher (Saw only 4; the ♀ taken, and
have laid eggs - about 10 days), West. Gnatcatcher,
Ruf. Hummer, and West. Bluebird.

878 Hammond's Flycatcher ♂ — $l 5\frac{5}{8}$, $a 8\frac{7}{8}$, $w 2\frac{3}{4}$, $t 2\frac{1}{4}$,
879 Wright's " ♂ — $l 6\frac{1}{8}$, $a 7\frac{1}{8}$, $w 3$, $t 2\frac{1}{2}$,
880 Black-chin Sparrow ♀ — $l 5\frac{1}{2}$, $a 7\frac{3}{4}$, $w 2\frac{3}{8}$, $t 2\frac{5}{8}$,
881 Black-throated Antcatcher ♀ — $l 4\frac{3}{4}$, $a 6$, $w 1\frac{7}{8}$, $t 2$,
882 Valley Parula ♀ — $l 10\frac{3}{8}$, $a 12\frac{1}{2}$, $w 4\frac{1}{2}$, $t 3\frac{1}{2}$,
883 " " ♂ — $l 11$, $a 14$, $w 4\frac{5}{8}$, $t 3\frac{1}{4}$,
884 Lazuli Parula ♂ — $l 5\frac{5}{8}$, $a 8\frac{3}{4}$, $w 2\frac{3}{8}$, $t 2\frac{1}{8}$.

- 5 West. Yellowthroat ♀ — $l-5\frac{3}{8}$, $s-6\frac{7}{8}$, $w-2\frac{1}{8}$, $t-2$.
- 6 Black-chin Sparrow ♀ — $l-5\frac{3}{4}$, $s-8$, $w-2\frac{1}{2}$, $t-2\frac{11}{16}$.
- 7 Heron's Song Sparrow ♂ — $l-6\frac{1}{4}$, $s-8$, $w-2\frac{7}{16}$, $t-2\frac{3}{8}$.
- 8 Rufous-crown Sparrow ♂ — $l-6$, $s-7\frac{7}{8}$, $w-2\frac{3}{4}$, $t-2\frac{5}{8}$.
- 9 " " ♀ — $l-6$, $s-7\frac{3}{8}$, $w-2\frac{3}{16}$, $t-2\frac{5}{16}$.
- 10 Red Flycatcher ♀ — $l-5\frac{1}{2}$, $s-8$, $w-2\frac{1}{2}$, $t-2\frac{5}{16}$.
- 11 Indigo-bird Sparrow ♂ — $l-5\frac{5}{8}$, $s-12$, $w-4\frac{5}{16}$, $t-2$.
- 12 " " ♀ — $l-5\frac{1}{2}$, $s-12$, $w-4\frac{5}{16}$, $t-2$.
- 13 " " ♂ — $l-5\frac{5}{8}$, $s-12\frac{1}{4}$, $w-4\frac{9}{16}$, $t-2\frac{1}{8}$.
- 14 Violet-green Swallow ♂ — $l-5\frac{1}{2}$, $s-12\frac{1}{4}$, $w-4\frac{5}{8}$, $t-1\frac{3}{4}$.
- 15 Belted Kingfisher ♂ — $l-13\frac{1}{2}$, $s-22\frac{1}{4}$, $w-6\frac{1}{2}$, $t-3\frac{3}{4}$.
- 16 Black-thr. G. Warbler ♀ — $l-4\frac{5}{8}$, $s-7\frac{7}{8}$, $w-2\frac{5}{16}$, $t-1\frac{7}{8}$.
- 17 Killdeer ♀ — $l-10\frac{1}{4}$, $s-20$, $w-6\frac{5}{8}$, $t-3\frac{7}{8}$.
- 18 Bell Sparrow ♀ — $l-6$, $s-8\frac{1}{8}$, $w-2\frac{5}{8}$, $t-2\frac{3}{4}$.
- 19 Ring-necked Duck ♂ — $l-8\frac{1}{4}$, $s-11\frac{1}{4}$, $w-3\frac{5}{8}$, $t-2\frac{1}{4}$.
- 20 " " ♀ — $l-7\frac{7}{8}$, $s-12\frac{7}{8}$, $w-3\frac{3}{8}$, $t-2\frac{1}{2}$.
- Black-headed Grosbeak ♂ — $l-8$, $s-12\frac{1}{2}$, $w-4$, $t-3\frac{1}{8}$.
- " ♂ — $l-8\frac{1}{4}$, $s-12\frac{3}{4}$, $w-4\frac{1}{2}$, $t-3\frac{3}{8}$.
- Intermediate Sparrow ♀ — $l-6\frac{7}{8}$, $s-9\frac{3}{8}$, $w-2$, $t-2\frac{1}{4}$.
- " ♀ — $l-6\frac{3}{4}$, $s-9\frac{1}{8}$, $w-2\frac{1}{2}$, $t-2\frac{1}{2}$.

April 20.

Clear. Slight frost in morning.

April 21.

Clear. Pleasant.

April 22.

Clear. Rained some in the night. Clear in afternoon.

Went up the arroyo above Canon a little ways this afternoon. Saw following birds: —

Valley Partridge, Mourning Dove, Turkey Vulture, Vermilion Swift

Lesser Nighthawk, White-throated Swift, Arkansas Kingbird,

West. Flycatcher, Hammond's (?) Flycatcher,

Mex. Horned Lark (Saw young flying about with stub tail)

Cal. Jay, West. Woodpecker, Lawrence's Goldfinch,

Golden-crowned Sparrow, Black-headed Grosbeak, Least Vireo

Louisiana Tanager, West. Mockingbird, Lutescent Warbler

West. Yellow Warbler, Audubon's Warbler, Long-tailed Chat

Townsend's Warbler (8), Hermit Warbler (10), Pileolated Warbler

Mazgill's Warbler, Canyon Wren, Dwarf Hermit Thrush,

The Townsend's Hermit Warblers were high up in the alders, and had a dove-sparrow-like tweet.

5. Hermit Warbler ♂ — l $5\frac{3}{4}$ a $7\frac{3}{8}$ w $2\frac{3}{4}$ t $2\frac{1}{16}$
 6. " " ♂ — l $5\frac{1}{4}$ a $8\frac{1}{4}$ w $2\frac{3}{4}$ t $2\frac{1}{8}$
 7. " " ♂ — l $5\frac{1}{4}$ a $8\frac{3}{8}$ w $2\frac{3}{4}$ t $2\frac{1}{8}$
 8. " " ♂ — l $5\frac{1}{4}$ a $8\frac{1}{4}$ w $2\frac{3}{4}$ t $2\frac{3}{16}$
 9. Townsend's Warbler ♂ — l 5 a $8\frac{1}{8}$ w $2\frac{3}{4}$ t $2\frac{1}{8}$
 10. " " ♂ — l $5\frac{1}{8}$ a 8 w $2\frac{11}{16}$ t 2
 11. " " ♂ — l $5\frac{1}{4}$ a $8\frac{1}{4}$ w $2\frac{3}{4}$ t $2\frac{1}{8}$
 12. " " ♂ — l $5\frac{1}{8}$ a $8\frac{1}{2}$ w $2\frac{3}{4}$ t $2\frac{1}{16}$
 13. " " ♀ — l $4\frac{7}{8}$ a $7\frac{5}{8}$ w $2\frac{7}{16}$ t $1\frac{7}{8}$
 14. Black-th. W. Warbler ♂ — l $5\frac{1}{8}$ a $7\frac{5}{8}$ w $2\frac{1}{2}$ t $2\frac{1}{16}$
 15. Macgillivray's Warbler ♂ — l $5\frac{3}{8}$ a $7\frac{1}{2}$ w $2\frac{3}{8}$ t $2\frac{1}{8}$
 16. " " ♂ — l $5\frac{3}{8}$ a $7\frac{1}{2}$ w $2\frac{3}{8}$ t $2\frac{1}{4}$
 17. Pileolated Warbler ♂ — l $4\frac{7}{8}$ a $6\frac{3}{4}$ w $2\frac{1}{4}$ t $1\frac{7}{8}$
 18. " " ♂ — l $4\frac{7}{8}$ a 7 w $2\frac{3}{8}$ t 2
 19. " " ♂ — l 5 a $6\frac{7}{8}$ w $2\frac{1}{4}$ t $2\frac{1}{16}$
 20. Long-tailed Chat ♂ — l 8 a $10\frac{1}{4}$ w $3\frac{5}{16}$ t $3\frac{1}{2}$
 21. Cal. Shrike ♀ juv. —
 22. Hammond's Flycatcher ♀ — l $5\frac{3}{4}$ a 9 w $2\frac{7}{8}$ t $2\frac{3}{8}$
 23. " " ♀ — l $5\frac{1}{2}$ a $8\frac{1}{2}$ w $2\frac{5}{8}$ t $2\frac{1}{4}$
 24. " " ♂ — l $5\frac{5}{8}$ a 9 w $2\frac{7}{8}$ t $2\frac{3}{4}$
 25. West. Flycatcher ♀ — l $5\frac{3}{8}$ a 8 w $2\frac{1}{2}$ t $2\frac{1}{8}$
 26. " " ♂ — l $5\frac{3}{4}$ a $8\frac{3}{4}$ w $2\frac{7}{8}$ t $2\frac{1}{2}$
 27. " " ♂ — l $5\frac{5}{8}$ a $8\frac{1}{2}$ w $2\frac{5}{8}$ t $2\frac{3}{8}$
 28. " " ♂ — l $5\frac{1}{2}$ a $8\frac{1}{4}$ w $2\frac{1}{2}$ t $2\frac{1}{4}$
 29. West. Woodhewer ♂ — l $5\frac{5}{8}$ a $8\frac{1}{4}$ w $2\frac{11}{16}$ t 2
 30. Ark. Goldfinch ♀ — l $4\frac{5}{8}$ a $7\frac{3}{4}$ w $2\frac{1}{2}$ t 1

April 23,

[Measurements next day]

Partially Cloudy, Cool. The young have left

April 24.

Cloudy all day. Rained some. Went up
to the arroyo below mouth of Arroyo Seco Canyon.
Saw following birds:— Olive-sided Flycatcher (2)
Hermit Warbler, Townsend's Warbler, Black-chin Sparrow
Hammond's (1) Flycatcher, Rock Wren, etc. Birds were
exceedingly abundant. The warblers were out
in the open arroyo in the low scrub thorn brush.

931. Townsend's Warbler ♂ — $l. 5\frac{3}{16}$ — $8\frac{1}{8}$ — $w. 2\frac{3}{4} + 2\frac{1}{16}$
932. Hermit Warbler ♀ — $l. 5\frac{3}{16}$ — $8\frac{1}{8}$ — $w. 2\frac{5}{8} + 2$
933. " " ♂ — $l. 5\frac{3}{16}$ — $8\frac{1}{8}$ — $w. 2\frac{3}{4} + 2\frac{1}{8}$
934. " " ♂ — $l. 5\frac{1}{4}$ — $8\frac{3}{8}$ — $w. 2\frac{13}{16} + 2\frac{1}{8}$
935. " " ♂ — $l. 5\frac{1}{4}$ — $8\frac{3}{8}$ — $w. 2\frac{3}{4} + 2\frac{1}{8}$
936. Macgillivray's Warbler ♂ — $l. 5\frac{1}{4}$ — $7\frac{1}{2}$ — $w. 2\frac{3}{8} + 2\frac{1}{8}$
937. " " ♂ — $l. 5\frac{1}{4}$ — $7\frac{3}{8}$ — $w. 2\frac{5}{16} + 2\frac{1}{8}$
938. Blue-throated Gray Warbler ♀ — $l. 5$ — $7\frac{3}{8}$ — $w. 2\frac{5}{16} + 1\frac{7}{8}$
939. West. Mocking Wren ♂ — $l. 5\frac{1}{2}$ — $8\frac{5}{8}$ — $w. 2\frac{3}{4} + 2\frac{1}{4}$
940. Hammond's Flycatcher ♀ — $l. 5\frac{1}{4}$ — $8\frac{3}{8}$ — $w. 2\frac{11}{16} + 2$

1. Hammond's Flycatcher ♀ — $l-5\frac{3}{8}, s-8\frac{3}{8}, w-2\frac{3}{4}, t-2\frac{1}{8}$.
2. " " ♀ — $l-5\frac{1}{2}, s-8\frac{5}{8}, w-2\frac{11}{16}, t-2\frac{3}{16}$.
3. " " ♂ — $l-5\frac{5}{8}, s-8\frac{3}{4}, w-2\frac{7}{8}, t-2\frac{5}{16}$.
4. West. Flycatcher ♀ — $l-5\frac{1}{2}, s-8, w-2\frac{1}{2}, t-2\frac{5}{16}$.
5. " " ♂ — $l-5\frac{1}{2}, s-8\frac{1}{2}, w-2\frac{3}{4}, t-2\frac{5}{16}$.
6. Mockingbird ♂ juv — $l-X, s-X, w-X, t-X$.
7. Lazuli Bunting ♂ — $l-5\frac{5}{8}, s-9, w-2\frac{15}{16}, t-2\frac{7}{16}$.
8. Dorey Hermit Thrush ♀ — $l-6\frac{5}{8}, s-10\frac{1}{8}, w-3\frac{3}{8}, t-2\frac{3}{8}$.
9. Olive-sided Flycatcher ♂ — $l-8, s-13\frac{5}{8}, w-4\frac{1}{2}, t-3$.

April 25.

Day. Cloudy all day. Few slight showers.
No migrations are upon us!

many birds in my life. Saw on the
see today, Hermit Warblers, Black-throated Gray
West. Flycatcher, Russet-backed Thrush, etc.

Went up to same place as yesterday. This morning
saw following birds: — Texas Nighthawk,
White-throated Swift, Vaux's Swift & Quince, Belted
Robin, & Rufous Hummers; also Kingbird.

Chin-sided Flycatcher, Black Phoebe, West Flycatcher,
Hermann's Flycatcher, West. Wood Pewee, Cal. Jay,
Mex. House Lark, Roadrunner, Brewer's Blackbird,
West. Meadowlark, Calif. Horned Oriole, Bullock's Oriole,
House Finch, Ark. Goldfinch, Lawrence's Goldfinch,
West. Savanna Sparrow, West. Lark Sparrow,
Intermediate Sparrow, Golden-crowned Sparrow, Cal. Towhee
West. Chipping Sparrow, Black-chinned Sparrow, Grand Turk
Rufous-crowned Sparrow, Hermann's Song Sparrow,
Black-throated Grosbeak, West. Blue Grosbeak (4),
Luzon Bunting, Louisiana Tanager, Cliff Swallow,
Barn Swallow, Violet-green Swallow, Cal. Shrike,
West. Warbling Vireo, Least Vireo; Calaveras Luteocephalus,
West. Yellow, Audubon's, Black-throated Gray, Townsend's,
Hermit, Macgillivray's & Pileolated Warblers, West.
Yellowthroat, Longtailed Chat, (11 Warblers - including
Mockingbird, Cal. Thrasher, Parkman's Wren, Cal. Bush-tit,
Pallid Wren-tit, West. Gnatcatcher, Dwarf Hermit, the
Lutescent-backed Thrush, West. Bluebird, etc.

0. Hermit Warbler ♂ — $l-5\frac{1}{8}$ $s-8\frac{1}{4}$ $w-2\frac{11}{16}$ $t-2\frac{1}{8}$
1. " " ♂ — $l-5\frac{5}{16}$ $s-8\frac{1}{4}$ $w-2\frac{1}{16}$ $t-2\frac{1}{16}$
2. Townsend's Warbler ♂ — $l-5\frac{1}{4}$ $s-8\frac{1}{4}$ $w-2\frac{5}{8}$ $t-2\frac{1}{8}$
3. " " ♂ — $l-5\frac{3}{16}$ $s-8\frac{1}{8}$ $w-2\frac{11}{16}$ $t-2\frac{1}{8}$
4. " " ♂ — $l-5\frac{3}{8}$ $s-8\frac{1}{4}$ $w-2\frac{3}{4}$ $t-2\frac{1}{16}$
5. Macgillivray's Warbler ♂ — $l-5\frac{3}{8}$ $s-8\frac{1}{4}$ $w-2\frac{3}{4}$ $t-2\frac{1}{16}$
6. " " ♀ — $l-5\frac{1}{2}$ $s-7\frac{1}{2}$ $w-2\frac{5}{16}$ $t-2\frac{1}{8}$
7. " " ♀ — $l-5\frac{3}{8}$ $s-7\frac{1}{2}$ $w-2\frac{5}{16}$ $t-2\frac{1}{8}$
8. " " ♂ — $l-5\frac{5}{8}$ $s-7\frac{5}{8}$ $w-2\frac{3}{8}$ $t-2\frac{3}{16}$
9. Calaveras Warbler ♀ — $l-4\frac{3}{4}$ $s-7\frac{3}{8}$ $w-2\frac{1}{8}$ $t-1\frac{3}{4}$
10. West. Yellowthroat ♀ — $l-5\frac{1}{4}$ $s-6\frac{3}{4}$ $w-2$ $t-2$
11. Least Vireo ♂ — $l-5$ $s-7$ $w-1\frac{1}{2}$ $t-1$
12. Night Flycatcher ♂ — $l-5\frac{1}{4}$ $s-8\frac{1}{4}$ $w-2\frac{1}{4}$ $t-2\frac{1}{8}$
13. Hammond's Flycatcher ♂ — $l-5\frac{5}{8}$ $s-9\frac{1}{4}$ $w-2\frac{15}{16}$ $t-2\frac{3}{8}$
14. West. Flycatcher ♂ — $l-5\frac{1}{2}$ $s-8\frac{1}{2}$ $w-2\frac{1}{2}$ $t-2\frac{1}{4}$
15. " " ♂ — $l-5\frac{5}{8}$ $s-8\frac{1}{2}$ $w-2\frac{1}{2}$ $t-2\frac{1}{4}$
16. Black-chin Sparrow ♂ — $l-5\frac{1}{4}$ $s-7\frac{1}{2}$ $w-2\frac{1}{2}$ $t-2\frac{1}{4}$
17. Dwarf Hermit Thrush ♀ — $l-6\frac{1}{2}$ $s-10$ $w-3\frac{3}{16}$ $t-2\frac{3}{8}$
18. Louisiana Tanager ♂ — $l-7\frac{1}{2}$ $s-10\frac{3}{4}$ $w-3\frac{1}{2}$ $t-2\frac{3}{8}$

Station for me near Santa Fe, N.M., April 27.

April 26.

Wind came in the night. Partly clear. Went with
Moss Hermit Warbler and lots of Pileated on the
Horse Ising.

April 27.

Clear. Warm. Went down to Oak Knoll this
evening. Saw Moss Song, Rural Gnatcatcher,
West. Gnatcatcher, Townsend's Warbler, Hermit Warbler,
Cal. Purple Finch, Calaveras Warbler, etc.

969. Cactus Wren ♂ — $l-7\frac{1}{4}$ $a-11\frac{1}{4}$ $w-7\frac{1}{4}$ $t-2$
970. Townsend's Warbler ♀ — $l-5$ $a-7\frac{3}{4}$ $w-2\frac{5}{8}$ $t-2$
971. Hermit Warbler ♂ — $l-5\frac{1}{8}$ $a-8\frac{1}{8}$ $w-2\frac{7}{8}$ $t-2\frac{3}{16}$
972. " ♂ — $l-5\frac{3}{16}$ $a-8\frac{1}{2}$ $w-2\frac{2}{8}$ $t-2\frac{1}{8}$
973. " ♂ — $l-5$ $a-8$ $w-2\frac{3}{4}$ $t-2$
974. " ♂ — $l-5\frac{1}{8}$ $a-8\frac{1}{8}$ $w-2\frac{11}{16}$ $t-2$
975. " ♂ — $l-5\frac{1}{4}$ $a-8\frac{1}{8}$ $w-2\frac{3}{4}$ $t-2\frac{1}{8}$
976. " ♂ — $l-5$ $a-8\frac{1}{4}$ $w-2\frac{13}{16}$ $t-2\frac{1}{8}$
977. " ♂ — $l-5\frac{1}{4}$ $a-8\frac{1}{4}$ $w-2\frac{3}{4}$ $t-2\frac{1}{8}$
978. Calaveras Warbler ♂ — $l-4\frac{5}{8}$ $a-7\frac{1}{8}$ $w-2\frac{5}{16}$ $t-1\frac{11}{16}$
979. Black-throated Gray Warbler ♀ — $l-4\frac{7}{8}$ $a-7\frac{3}{8}$ $w-2\frac{3}{8}$ $t-1\frac{1}{8}$
980. Ash-throated Flycatcher ♂ — $l-8\frac{3}{8}$ $a-13$ $w-4\frac{1}{8}$ $t-5\frac{1}{8}$

April 8.

Clear, Warm. Went over to Yolo St. reservoir, a few
miles this evening. Saw a few House Swifts
flying high overhead, also a few Cliff and
Hollygreen Swallows.

1. Hermit Warbler ♀ — 1.5 0-8, w $2\frac{3}{4}$ t. 2

2. Bullock's Oriole ♀ — 1.7 $\frac{1}{2}$ 0-1 $\frac{1}{2}$ w $3\frac{3}{4}$ t. 2

April 29.

Clear, Warm. Went up to the arroyo below
Vallejo Gate this evening. The migrations are nearly
over and mostly summer breeders are leaving. The
last stage since last Sat. in the middle of the
arroyo. House Swift, Golden-crowned Sparrow, Towns-
end Sparrow, California Warbler, West. Wood Pewee,
Ind.-sided Flycatcher, Cal. Purple Finch, Lazuli
Purple Finch 1/1 pair in with some Cal. Purple Finch,
Missionary Tanager, Black-headed Grosbeak,
Rufous Hummer, Costa's Hummer, Black-ch. Hummer,
Evening Hawk, Azulei Gnatcatcher, Song Sparrow,
at Chipping Sparrow for large flock of birds in the

migrating), Bullock's Oriole, Ariz. Hooded Oriole,
West. Yellow Warbler, Pileolated Warbler, Lutescent Warbler
White Flycatcher, etc.

983. Calaveras Warbler ♀ — l. $4\frac{5}{8}$ o-7. w- $2\frac{3}{16}$ t- $1\frac{5}{8}$

984. " " ♀ — l. $4\frac{3}{4}$ o-7 $7\frac{3}{16}$ w- $2\frac{1}{4}$ t- $1\frac{3}{4}$

985. West. Yellow Warbler ♂ — l. $1\frac{7}{8}$ o-7 $7\frac{1}{2}$ w- $1\frac{1}{2}$ t- $1\frac{7}{8}$

986. Pileolated Warbler ♂ — l. 5. o-7 $7\frac{1}{8}$ w- $2\frac{5}{16}$ t-

987. " " ♀ — l. 29. o-45. w-12. t-4

988. Cassin's Purple Finch ♂ — l. $6\frac{5}{8}$ o-11 $1\frac{1}{4}$ w- $3\frac{1}{2}$ t-2

989. Long-tailed Chat ♂ — l. $7\frac{2}{8}$ o-10 $1\frac{1}{8}$ w- $3\frac{1}{8}$ t-3

990. Lazuli Bunting ♂ — l. $5\frac{5}{8}$ o-9. w- $2\frac{2}{8}$ t-2

991. Cal. Purple Finch ♂ — l. $6\frac{2}{8}$ o-10. w- $3\frac{1}{4}$ t-2

992. Olive-sided Flycatcher ♂ — l. 8. o-13 $1\frac{1}{4}$ w-4. t-

993. Bullock's Oriole ♀ — l. $7\frac{2}{8}$ o-10 $1\frac{1}{8}$ w- $3\frac{3}{4}$ t-3

994. Bullock's Oriole ♂ — l. $7\frac{5}{8}$ o-11 $1\frac{5}{8}$ w- $2\frac{3}{4}$ t-3

995. Black-headed Grosbeak ♂ — l. $8\frac{1}{8}$ o-13. w-4. t-

996. " " " ♂ — l. $8\frac{1}{8}$ o-13 $1\frac{1}{2}$ w-4. t-

997. Texas Nighthawk ♂ — l. $1\frac{1}{4}$ o-4 $1\frac{1}{4}$ w- $2\frac{1}{4}$ t-

998. West. Chipping Sparrow ♂ — l. $5\frac{2}{8}$ o-8 $1\frac{5}{8}$ w- $1\frac{1}{2}$ t-

